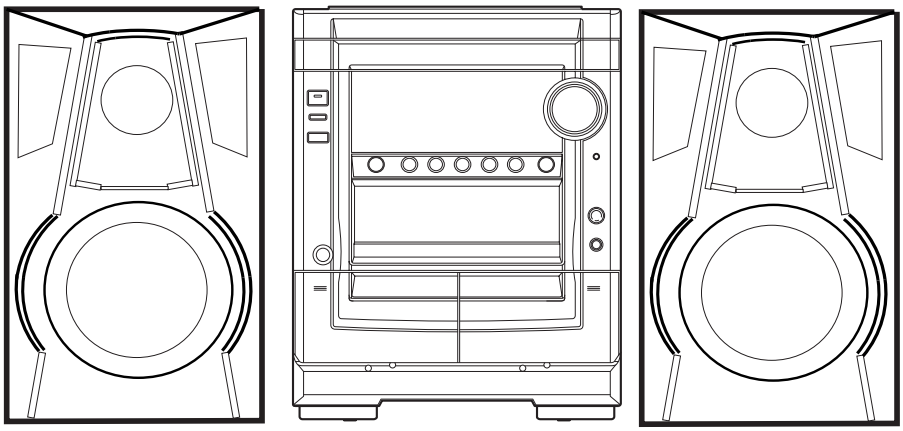
aiwa SERVICE

NSX-AJ800 U
NSX-SZ800 LH



SERVICE MANUAL

COMPACT DISC STEREO SYSTEM

BASIC CD MECHANISM : BZG-5 ZD3N1M
BASIC TAPE MECHANISM: 2ZM-3MK2 PR4NM/
6ZM-3 PR4NM

SYSTEM	CD CASSEIVER	TAPE MECHANISM	FRONT SPEAKER	SATELLITE SPEAKER	REMOTE CONTROLLER
NSX–AJ800	CX–NAJ800	6ZM–3 PR4NM	SX–NAJ801	SX–S85	RC–BAS01
NSX–SZ800	CX–NSZ800	2ZM–3MK2 PR4NM	SX–WNSZ800		

- This Service Manual is the “Revision Publishing” and replace “Simple Manual” NSX-AJ800/SZ800<U,LH>, (S/M Code No. 09-012-443-5T1).
- If requiring information about the CD mechanism, see Service Manual of BZG-5 (S/M Code No. 09-00C-353-3N2).

aiwa

S/M Code No. 09-013-443-5R1

REVISION DATA

SPECIFICATIONS

TUNER

FM tuning range: 87.5 MHz to 108 MHz
FM usable Sensitivity(IHF): 13.2 dBf
FM antenna terminals: 75 ohms (unbalanced)
AM tuning range: 530 kHz to 1710 kHz (10 kHz step)
531 kHz to 1602 kHz (9 kHz step)
AM usable sensitivity: 350 μV/m
AM antenna: Loop antenna

AMPLIFIER

Main amplifier<U>
Power output: 125 W + 125 W (50 Hz - 20 kHz, THD less than 1%, 6 ohms)
156 W + 156 W (1 kHz, THD less than 10%, 6 ohms)
Total harmonic distortion: 0.08% (70 W, 1 kHz, 6 ohms, DIN AUDIO)
Main amplifier<LH>
Power output: Rated: 120 W + 120 W (6 ohms, T.H.D. 1%, 1kHz)
Reference: 150 W + 150 W (6 ohms, T.H.D. 10%, 1kHz)
Total harmonic distortion: 0.08% (70 W, 1 kHz, 6 ohms, DIN AUDIO)
Satellite amplifier<U>
Power output: 15 W + 15 W (50 Hz - 20 kHz, THD less than 1%, 8 ohms)
18 W + 18 W (1 kHz, THD less than 10%, 8 ohms)
Total harmonic distortion: 0.2% (7 W, 1 kHz, 8 ohms, DIN AUDIO)
Satellite amplifier<LH>
Power output: Rated: 16 W + 16 W (8 ohms, T.H.D. 1%, 1kHz)
Reference: 20 W + 20 W (8 ohms, T.H.D. 10%, 1kHz)
Total harmonic distortion: 0.2% (7 W, 1 kHz, 8 ohms, DIN AUDIO)
Input: VIDEO/AUX: 700 mV
MIC: 1.7 mV (10 kohms)<LH>
Output: FRONT SPEAKERS: 6 ohms or more
STAELLITE SPEAKERS: 8 ohms or more
PHONES: 32 ohms or more

CASSETTE DECK<U>

Track format: 4 tracks, 2 channels stereo
Frequency response: 50 Hz - 15 kHz
Recording system: AC bias
Heads: DECK 1: playback x 1
DECK 2: recording/playback x 1, erase x 1

CASSETTE DECK<LH>

Track format: 4 tracks, 2 channels stereo
Frequency response: CrO_2 tape: 50 Hz – 15000 Hz
Normal tape: 50 Hz – 15000 Hz
Recording system: AC bias
Heads: DECK 1: playback x 1
DECK 2: recording/playback x 1, erase x 1

CD PLAYER

Laser: Semiconductor laser (λ = 780 nm)
D/A converter: 1 bit dual
Signal-to-noise ratio: 85 dB (1 kHz, 0 dB)
Harmonic distortion: 0.05 % (1 kHz, 0 dB)

FRONT SPEAKERS SX-NAJ801 (only for NSX-AJ800)

Speaker system: 3 way, bass reflex (magnetic shielded)
Speaker units: Woofer: 160 mm ($6^3/_8$ in.) cone
Tweeter: 60 mm ($2^3/_8$ in.) cone
Super tweeter: 20 mm ($^{13}/_{16}$ in.) ceramic
Impedance: 6 ohms
Dimensions (W x H x D): 230 x 324 x 224 mm
($9^1/_8$ x $12^7/_8$ x $8^7/_8$ in.)
Weight: 3.8 kg (8 lbs 6 oz)

FRONT SPEAKERS SX-WNSZ800 (only for NSX-SZ800)

Speaker system: 3 way, Built-in subwoofer (magnetic shielded type)
Speaker units: Subwoofer: 160 mm cone type
Full range: 100 mm cone type
Super tweeter: 20 mm ceramic type
Impedance: 6 ohms
Dimensions (W x H x D): 230 x 324 x 257 mm
Weight: 4.8 kg

SATELLITE SPEAKERS SX-S85

Speaker system: Full range (magnetic shielded type)
Speaker units: 80 mm cone type
Impedance: 8 ohms
Sensitivity: 87 dB/W/m
Dimensions (W x H x D): 100 x 325 x 95 mm
(4 x $12^7/_8$ x $3^3/_4$ in.)(with pedestal)
100 x 186 x 84 mm
(4 x $7^3/_8$ x $3^3/_8$ in.)(without pedestal)
Weight: 0.6 kg (1 lbs 5 oz)

GENERAL

Power requirements: 120 V AC, 60 Hz<U>
120 V/220 - 230 V/240 V AC (Switchable), 50 Hz/60 Hz<LH>
Power consumption: 140 W<U>, 180 W<LH>
Power consumption in standby mode: With ECO mode on: 0.6 W
With ECO mode off: 24 W<U>, 26 W<LH>
Dimensions (W x H x D): 260 x 326 x 345 mm
($10^1/_4$ x $12^7/_8$ x $13^5/_8$ in.)
Weight: 8.4 kg (18 lbs 8 oz)<U>, 8.9 kg<LH>

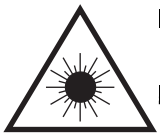
• Design and specifications are subject to change without notice.

• The word "BBE"and the "BBE symbol" are trademarks of BBE Sound, Inc.
Under license from BBE Sound,Inc.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

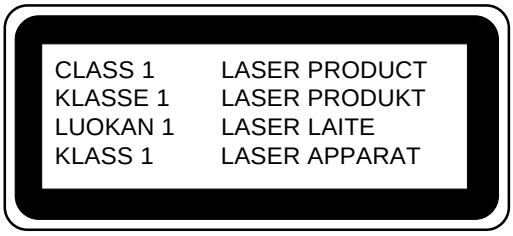
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL
Usynlig laserstråling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



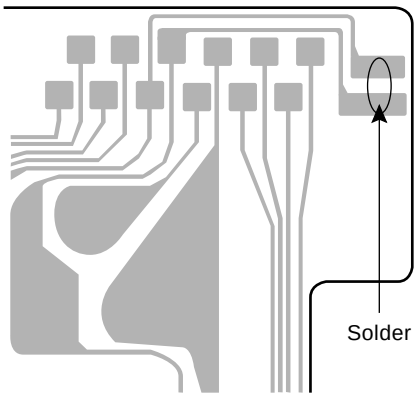
Precaution to replace Optical block

(KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in right figure.

PICK-UP ASSY PWB



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, secondary defect can occur.
In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

① Remove the AC power cord.
② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
⑤ Check that voltage across C101 and C102 has decreased to 1 V or less using a multimeter or an oscilloscope.

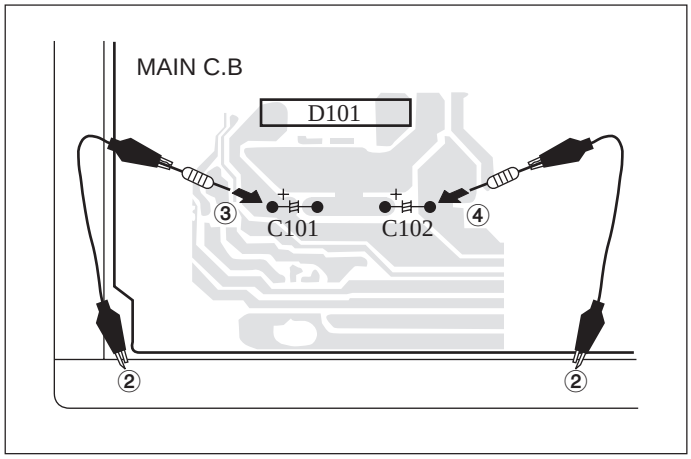


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is "H", the MICROCOMPUTER is judged to be operating correctly. When this terminal is "L", the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.
When the MICROCOMPUTER is not defective, the HOLD terminal can also go "L" when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to "L".

- Good or no good judgement of the MICROCOMPUTER

① Turn on the AC main power.
② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the "H" level or not.
③ When the HOLD terminal is "L" level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

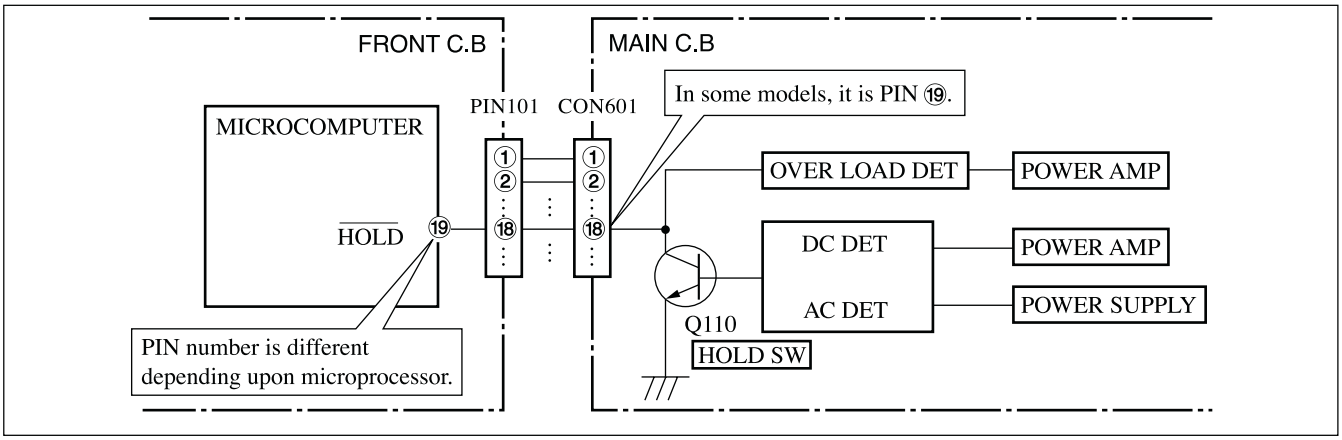


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.
When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

① Remove the AC power cord.

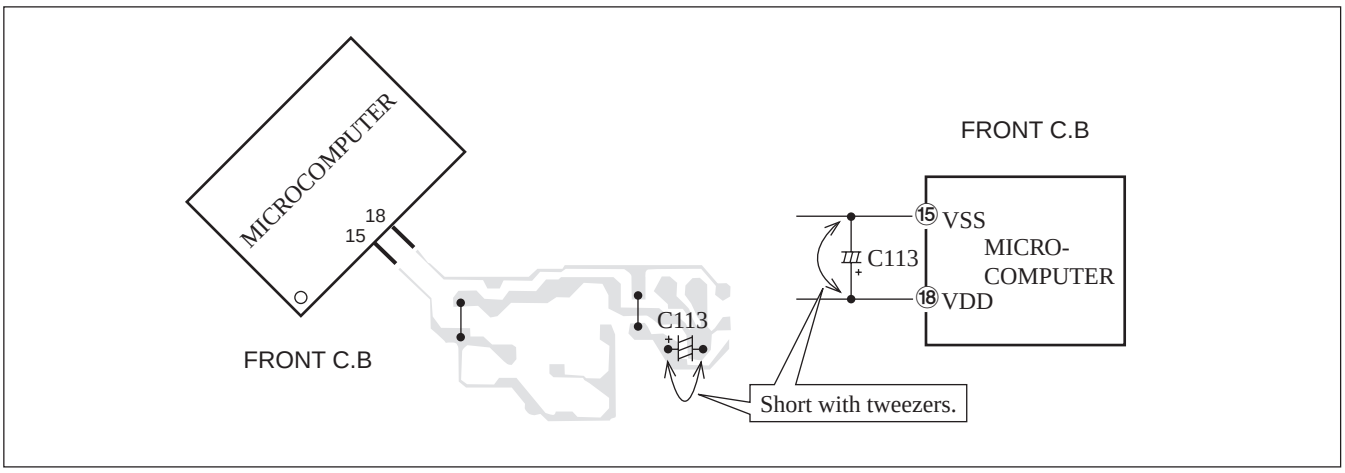


Fig-2-2

② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

2-3. Confirmation of soldering state of MICROCOMPUTER

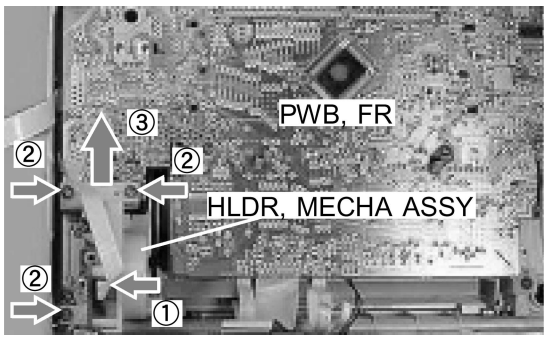
Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

DISASSEMBLY INSTRUCTIONS

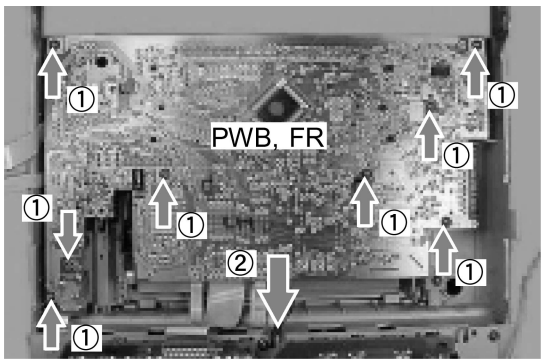
1. How to Remove PANEL, MOVE ASSY

Remove the outside ornamental parts, CD mechanism, CABI. FR before starting the following procedure.

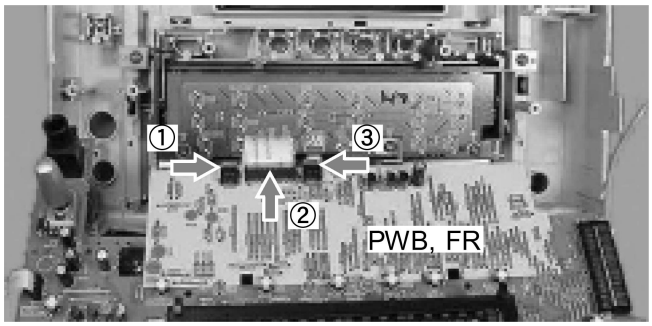
1) Remove the FFC (1) and the three screws (2). Then remove HLDR, MECHA ASSY.



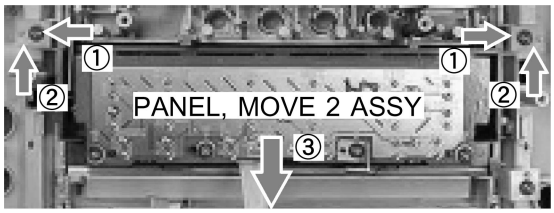
2) Remove the eight screws (1) and remove the PWB. FR (2).



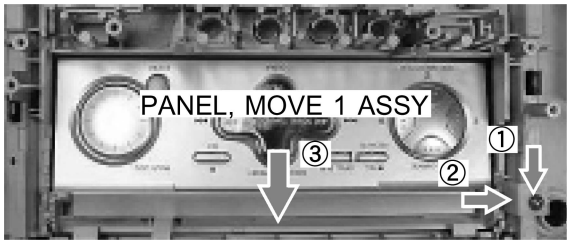
3) Remove the three FFC (1), (2), (3).



4) Remove the two screws (1) and remove the HLDR, PANEL 2 (2). Then remove PANEL, MOVE 2 ASSY (3).

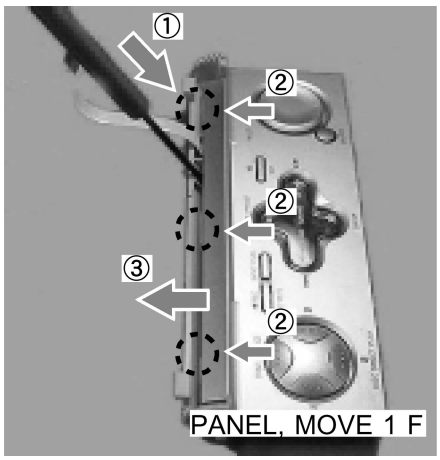


5) Remove the screw (1) and the HLDR, PANEL (2). Then remove PANEL, MOVE 1 ASSY (3).

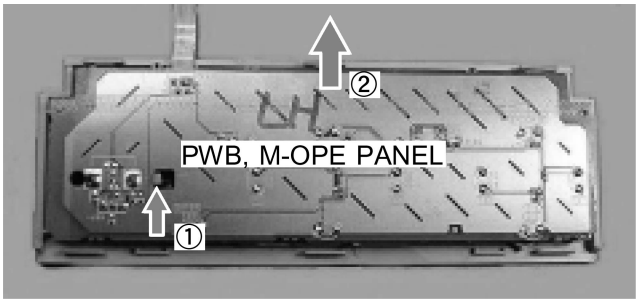


2. How to Disassemble PANEL, MOVE 1 ASSY

1) Insert a screwdriver tip into the clearance on top of the PANEL, MOVE 1 ASSY (1) and remove the PANEL, MOVE 1 F (3).

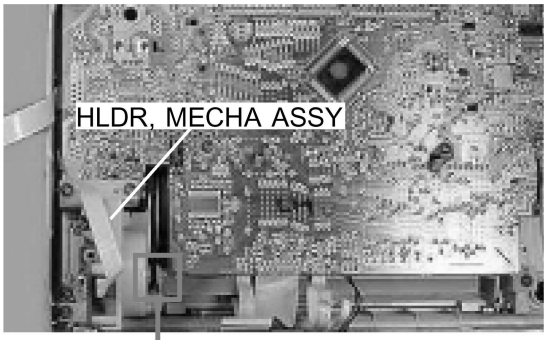


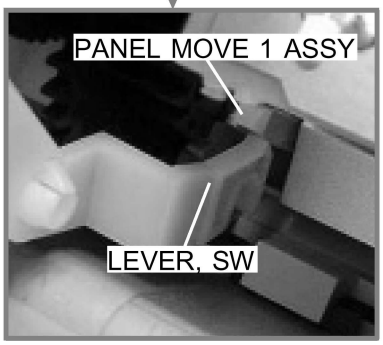
2) Remove the claw (1) and remove the PWB, M-OPE PANEL (2).



3. Note when Re-installing the HLDR, MECHA ASSY

Re-installing the HLDR, MECHA ASSY after the PANEL, MOVE is closed.
Re-install it in a way that the LEVER SW of the HLDR, MECHA ASSY is located beneath the PANEL, MOVE 1 ASSY.





ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-020-454-010		IC,DN6851<U>
	87-A21-269-010		IC,EW732<LH>
	8B-NF7-631-130		C-IC,LC866560W-5V19
	87-A21-831-010		IC,SPS-422-1-F1
	87-A21-911-040		C-IC,M61515FP
	87-A21-419-040		C-IC,NJM14558MD-TE2
	87-A21-893-040		C-IC,NJM4558V-TE2
	87-A21-023-040		C-IC,BA3835F
	87-A21-401-040		C-IC,M61503FP
	87-A21-695-010		IC,LA1845L
	87-A21-928-010		IC,LC72131D-N
TRANSISTOR			
	87-A30-494-080		TR,2SA1980G
	87-026-463-080		TR,2SA933S (0.3W)
	87-A30-559-010		TR,CSB1370EF
	87-A30-492-080		TR,2SC5343G
	87-A30-107-070		C-TR,CMBT5401
	87-A30-484-080		C-TR,KRA102S
	87-A30-190-080		TR,CC5551
	87-A30-106-040		C-TR,CMBT5551
	87-A30-098-010		TR,FP 1016
	87-026-609-080		TR,KTA1266GR
	87-A30-087-080		C-FET,2SK2158
	87-A30-490-080		C-TR,KRC107S
	87-A30-076-080		C-TR,2SC3052F
	87-026-610-080		TR,KTC3198GR
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-162-010		FET,2SK2937
	87-A30-582-080		TR,CDA1585BC
	87-A30-495-080		TR,2SA1981Y
	87-A30-091-080		FET,2SJ460
	87-A30-090-080		FET,2SK2541
	87-A30-063-080		C-TR,KRA104S
	87-A30-256-010		TR,2SD1933
	87-A30-255-010		TR,2SB1342
	87-A30-075-080		C-TR,2SA1235F
	89-327-143-080		C-TR,2SC2714 (0.1W)
	87-A30-489-080		C-TR,KRA107S
	87-A30-520-080		TR,2SC5342Y
	87-A30-515-080		TR,2SA1979O/Y
	87-A30-234-080		TR,CSC4115BC
DIODE			
	87-A40-393-090		DIODE,1N5402GW(F20)
	87-A40-839-090		DIODE,G5SBA60L-6088
	87-A40-781-080		ZENER,UZ36BSA
	87-A40-764-080		ZENER,UZ10BSC
	87-A40-553-080		DIODE,1N4003 LES
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-A40-291-080		DIODE,1N4148 (CPT)
	87-A40-488-080		DIODE,1SS244
	87-A40-748-080		ZENER,UZ5.6BSA
	87-A40-747-080		ZENER,UZ5.1BSB
	87-A40-749-080		ZENER,UZ5.6BSB
	87-A40-768-080		ZENER,UZ16BSA
	87-A40-802-080		ZENER,UZ5.1BSC
	87-A40-739-080		ZENER,UZ2.7BSA
	87-A40-128-080		C-VARI-CAP,HVU202A
	87-017-149-080		ZENER,HZS6A2L
MAIN C.B			
C1	87-A12-383-000		CAP,E 3300-65 M 85 IV LELON<U>
C1	87-016-657-090		CAP,E 3300-71<LH>
C2	87-A12-383-000		CAP,E 3300-65 M 85 IV LELON<U>
C2	87-016-657-090		CAP,E 3300-71<LH>
C3	87-A12-317-080		C-CAP,U 0.1-50 Z F
C4	87-A12-317-080		C-CAP,U 0.1-50 Z F
C5	87-A12-317-080		C-CAP,U 0.1-50 Z F
C6	87-A12-317-080		C-CAP,U 0.1-50 Z F
C9	87-010-759-080		C-CAP,U, 0.1-25F
C10	87-010-759-080		C-CAP,U, 0.1-25F
C11	87-010-759-080		C-CAP,U, 0.1-25F
C12	87-010-759-080		C-CAP,U, 0.1-25F
C21	87-A12-780-090		CAP,E 4700-35 M 85 SKR
C22	87-A12-780-090		CAP,E 4700-35 M 85 SKR
C31	87-A12-091-080		CAP,E 10-50 SMG
C32	87-012-286-080		CAP, U 0.01-25
C33	87-A12-062-080		CAP,E 100-10 SMG<U>
C34	87-A12-072-080		CAP,E 100-25 SMG
C35	87-A12-071-080		CAP,E 47-25 SMG
C36	87-010-381-080		CAP, ELECT 330-16V
C38	87-012-286-080		CAP, U 0.01-25
C60	87-A12-089-080		CAP,E 3.3-50 SMG
C61	87-A12-071-080		CAP,E 47-25 SMG
C83	87-A12-074-080		CAP,E 470-25 SMG
C97	87-010-831-080		C-CAP,U,0.1-16F
C101	87-012-279-080		C-CAP,U 2700P-50 B
C102	87-012-279-080		C-CAP,U 2700P-50 B
C103	87-A12-084-080		CAP,E 0.22-50 SMG
C104	87-A12-084-080		CAP,E 0.22-50 SMG
C107	87-A12-089-080		CAP,E 3.3-50 SMG
C108	87-A12-089-080		CAP,E 3.3-50 SMG
C111	87-A12-077-080		CAP,E 33-35 SMG
C112	87-A12-077-080		CAP,E 33-35 SMG
C113	87-A10-596-080		C-CAP,S 100P-100 J CH
C114	87-A10-596-080		C-CAP,S 100P-100 J CH
C117	87-A12-317-080		C-CAP,U 0.1-50 Z F
C118	87-A12-317-080		C-CAP,U 0.1-50 Z F
C119	87-012-286-080		CAP, U 0.01-25
C120	87-012-286-080		CAP, U 0.01-25
C123	87-010-177-080		C-CAP,S 820P-50 SL
C124	87-010-177-080		C-CAP,S 820P-50 SL
C133	87-012-282-080		CAP, U 4700P-50
C140	87-012-278-080		C-CAP,U 2200P-50 B
C186	87-010-759-080		C-CAP,U, 0.1-25F
C187	87-A12-180-080		CAP,E 10-63 M 105 KME
C188	87-A12-180-080		CAP,E 10-63 M 105 KME
C201	87-010-759-080		C-CAP,U, 0.1-25F
C202	87-010-759-080		C-CAP,U, 0.1-25F
C203	87-010-759-080		C-CAP,U, 0.1-25F
C204	87-010-759-080		C-CAP,U, 0.1-25F
C220	87-012-274-080		CHIP CAP,U 1000P-50B
C225	87-A12-317-080		C-CAP,U 0.1-50 Z F
C226	87-A12-317-080		C-CAP,U 0.1-50 Z F
C227	87-A12-317-080		C-CAP,U 0.1-50 Z F
C228	87-A12-317-080		C-CAP,U 0.1-50 Z F
C241	87-010-831-080		C-CAP,U,0.1-16F
C301	87-012-274-080		CHIP CAP,U 1000P-50B
C302	87-012-274-080		CHIP CAP,U 1000P-50B
C303	87-012-275-080		C-CAP,U 1200P-50 B
C304	87-012-275-080		C-CAP,U 1200P-50 B
C307	87-A12-062-080		CAP,E 100-10 SMG
C308	87-A12-062-080		CAP,E 100-10 SMG
C309	87-012-188-080		C-CAP,U 47P-50 CH
C310	87-012-188-080		C-CAP,U 47P-50 CH
C313	87-012-284-080		CAP, U 6800P-50
C314	87-012-284-080		CAP, U 6800P-50
C315	87-A12-062-080		CAP,E 100-10 SMG
C317	87-A12-085-080		CAP,E 0.33-50 SMG
C318	87-A12-085-080		CAP,E 0.33-50 SMG
C326	87-010-787-080		CAP, U 0.022-25
C327	87-010-831-080		C-CAP,U,0.1-16F
C360	87-A12-087-080		CAP,E 1-50 SMG

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C399	87-A10-039-080		C-CAP,U 470P-50 J CH
C401	87-A12-083-080		CAP,E 0.1-50 SMG
C402	87-A12-083-080		CAP,E 0.1-50 SMG
C403	87-012-193-080		C-CAP,U 82P-50 CH
C404	87-012-193-080		C-CAP,U 82P-50 CH
C405	87-012-283-080		C-CAP,U 5600P-50 B<LH>
C405	87-012-286-080		CAP, U 0.01-25<U>
C406	87-012-283-080		C-CAP,U 5600P-50 B<LH>
C406	87-012-286-080		CAP, U 0.01-25<U>
C407	87-012-281-080		C-CAP,U 3900P-50 B<LH>
C407	87-012-286-080		CAP, U 0.01-25<U>
C408	87-012-281-080		C-CAP,U 3900P-50 B<LH>
C408	87-012-286-080		CAP, U 0.01-25<U>
C409	87-012-278-080		C-CAP,U 2200P-50 B
C410	87-012-278-080		C-CAP,U 2200P-50 B
C411	87-A12-091-080		CAP,E 10-50 SMG
C412	87-A12-091-080		CAP,E 10-50 SMG
C452	87-A12-069-080		CAP,E 22-25 SMG
C453	87-012-279-080		C-CAP,U 2700P-50 B
C454	87-012-279-080		C-CAP,U 2700P-50 B
C455	87-012-279-080		C-CAP,U 2700P-50 B
C456	87-012-286-080		CAP, U 0.01-25
C457	87-A12-361-080		CAP,M 5600P-100 J CP
C458	87-012-274-080		CHIP CAP,U 1000P-50B
C459	87-012-271-080		CAP, U 560P-50
C460	87-010-831-080		C-CAP,U,0.1-16F
C461	87-012-158-080		C-CAP,S 390P-50 CH
C462	87-012-158-080		C-CAP,S 390P-50 CH
C470	87-018-127-080		CAP, CER 470P-50V
C605	87-012-280-080		CAP, U 3300P-50
C606	87-012-280-080		CAP, U 3300P-50
C609	87-010-785-080		C-CAP,U0.015-25BK
C610	87-010-785-080		C-CAP,U0.015-25BK
C611	87-A12-084-080		CAP,E 0.22-50 SMG
C612	87-A12-084-080		CAP,E 0.22-50 SMG
C613	87-A12-084-080		CAP,E 0.22-50 SMG
C614	87-A12-084-080		CAP,E 0.22-50 SMG
C615	87-012-172-080		CAPACITOR CHIP U 10P CH
C616	87-016-455-080		CAP,E 470-6.3 SMG
C617	87-016-455-080		CAP,E 470-6.3 SMG
C618	87-A12-091-080		CAP,E 10-50 SMG
C620	87-A12-062-080		CAP,E 100-10 SMG
C623	87-A12-084-080		CAP,E 0.22-50 SMG
C624	87-A12-084-080		CAP,E 0.22-50 SMG
C630	87-A10-260-080		C-CAP,U 0.1-16 K B
C631	87-012-281-080		C-CAP,U 3900P-50 B
C632	87-012-281-080		C-CAP,U 3900P-50 B
C633	87-A11-070-080		C-CAP,U 0.033-16 K B
C634	87-A11-070-080		C-CAP,U 0.033-16 K B
C661	87-012-336-080		CAP, CHIP SS 3300 SL
C662	87-012-336-080		CAP, CHIP SS 3300 SL
C671	87-010-831-080		C-CAP,U,0.1-16F<LH>
C672	87-010-831-080		C-CAP,U,0.1-16F<LH>
C673	87-012-278-080		C-CAP,U 2200P-50 B<LH>
C677	87-012-286-080		CAP, U 0.01-25
C771	87-A12-062-080		CAP,E 100-10 SMG
C772	87-012-286-080		CAP, U 0.01-25
C782	87-012-286-080		CAP, U 0.01-25
C783	87-012-286-080		CAP, U 0.01-25
C784	87-012-286-080		CAP, U 0.01-25
C785	87-012-286-080		CAP, U 0.01-25
C786	87-012-286-080		CAP, U 0.01-25
C788	87-012-167-080		C-CAP,U 5P-50 CH
C789	87-A12-052-080		C-CAP,S 0.033-25 J B
C790	87-A12-052-080		C-CAP,S 0.033-25 J B
C791	87-010-831-080		C-CAP,U,0.1-16F
C792	87-012-286-080		CAP, U 0.01-25
C793	87-A12-090-080		CAP,E 4.7-50 SMG
C795	87-012-286-080		CAP, U 0.01-25
C796	87-012-286-080		CAP, U 0.01-25
C797	87-A12-091-080		CAP,E 10-50 SMG
C798	87-012-286-080		CAP, U 0.01-25
C799	87-A12-077-080		CAP,E 33-35 SMG
C800	87-010-829-080		CAP, U 0.047-16
C801	87-A12-089-080		CAP,E 3.3-50 SMG
C802	87-010-829-080		CAP, U 0.047-16
C803	87-010-787-080		CAP, U 0.022-25
C804	87-A12-062-080		CAP,E 100-10 SMG
C807	87-A12-086-080		CAP,E 0.47-50 SMG
C808	87-A12-087-080		CAP,E 1-50 SMG
C809	87-A12-087-080		CAP,E 1-50 SMG
C810	87-010-831-080		C-CAP,U,0.1-16F
C814	87-012-286-080		CAP, U 0.01-25
C815	87-A12-086-080		CAP,E 0.47-50 SMG
C816	87-A12-086-080		CAP,E 0.47-50 SMG
C821	87-A12-091-080		CAP,E 10-50 SMG
C823	87-010-177-080		C-CAP,S 820P-50 SL
C824	87-A12-090-080		CAP,E 4.7-50 SMG
C825	87-010-596-080		CAP, S 0.047-16
C842	87-012-286-080		CAP, U 0.01-25
C844	87-012-286-080		CAP, U 0.01-25
C850	87-A12-071-080		CAP,E 47-25 SMG
C851	87-012-286-080		CAP, U 0.01-25
C852	87-012-286-080		CAP, U 0.01-25
C853	87-012-286-080		CAP, U 0.01-25
C858	87-010-831-080		C-CAP,U,0.1-16F
C901	87-018-145-080		CAP,TC-U 6.8P-50 CH
C904	87-012-286-080		CAP, U 0.01-25
C905	87-012-286-080		CAP, U 0.01-25
C907	87-012-286-080		CAP, U 0.01-25
C908	87-A10-915-080		C-CAP,U 1000P-25 J CH
C909	87-012-286-080		CAP, U 0.01-25
C910	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C911	87-012-170-080		C-CAP,U 8P-50 CH
C912	87-012-195-080		C-CAP,U 100P-50CH
C913	87-012-286-080		CAP, U 0.01-25
C914	87-012-166-080		C-CAP,U 4P-50 CH
C915	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C916	87-012-180-080		C-CAP,U 22P-50 CH
C917	87-012-186-080		C-CAP,U 39P-50 CH
C918	87-A10-039-080		C-CAP,U 470P-50 J CH
C921	87-012-195-080		C-CAP,U 100P-50CH
C922	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C959	87-010-831-080		C-CAP,U,0.1-16F
C960	87-010-831-080		C-CAP,U,0.1-16F
C961	87-012-167-080		C-CAP,U 5P-50 CH
C963	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C971	87-A12-067-080		CAP,E 330-16 SMG
C972	87-A12-090-080		CAP,E 4.7-50 SMG
C973	87-012-286-080		CAP, U 0.01-25
C974	87-012-286-080		CAP, U 0.01-25
C979	87-012-195-080		C-CAP,U 100P-50CH
C981	87-A12-071-080		CAP,E 47-25 SMG
C982	87-010-831-080		C-CAP,U,0.1-16F
C983	87-012-286-080		CAP, U 0.01-25
C984	87-012-286-080		CAP, U 0.01-25
C987	87-012-286-080		CAP, U 0.01-25
C991	87-012-176-080		CAP 15P
C992	87-012-176-080		CAP 15P
C993	87-012-274-080		CHIP CAP,U 1000P-50B
C995	87-012-274-080		CHIP CAP,U 1000P-50B
C997	87-010-831-080		C-CAP,U,0.1-16F
C998	87-A12-071-080		CAP,E 47-25 SMG
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F
CF831	87-008-261-010		FILTER, SFE10.7MA5-A
CF832	87-008-261-010		FILTER, SFE10.7MA5-A
CN3	8B-NF7-619-010		CONN ASSY,2P V PANO
CN101	87-099-197-010		CONN, 9P 6216 V
CN301	87-A60-620-010		CONN,3P V 2MM JMT
CN351	87-A60-625-010		CONN,8P V 2MM JMT

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
CN501	87-099-564-010		CONN,4P TUC-P4P-B1
CN601	87-099-719-010		CONN,30P TYK-B(X)
CN602	87-A60-131-010		CONN,6P V FE
CNA1	8A-NF8-653-010		CONN ASSY,9P TID-A(480)<LH>
CNA2	8B-NF7-618-010		CONN ASSY,3P V PANO
CON351	86-ZM3-605-110		CONN ASSY,8P -RPB<U>
FC602	88-906-251-110		FF-CABLE,6P 1.25(RVS-FACE)
FC605	88-909-101-110		FF-CABLE, 9P 1.25 100MM
J201	87-A60-929-010		JACK,DIA6.3 BLK ST W/S TAI
J203	87-A60-238-010		TERMINAL,SP 4P (MSC)
J207	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN
J602	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
JR123	87-A10-596-080		C-CAP,S 100P-100 J CH
JR124	87-A10-596-080		C-CAP,S 100P-100 J CH
L201	87-A50-610-010		COIL,1UH K(MDEC)
L202	87-A50-610-010		COIL,1UH K(MDEC)
L203	87-A50-610-010		COIL,1UH K(MDEC)
L204	87-A50-610-010		COIL,1UH K(MDEC)
L401	87-A50-625-010		COIL,TRAP 85KHZ (SANWA)<LH>
L402	87-A50-625-010		COIL,TRAP 85KHZ (SANWA)<LH>
L451	87-007-342-010		COIL,OSC 85K BIAS
L801	87-A50-608-010		COIL,FM DET-N(TOK)
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)
L811	87-005-847-080		COIL,2.2UH(CECS)
L832	87-005-847-080		COIL,2.2UH(CECS)
L902	88-ZA1-602-110		COIL,FM-RF-U2 2G
L903	88-ZA1-601-010		COIL,FM-RF-U1 2G
L904	87-005-847-080		COIL,2.2UH(CECS)
L905	88-ZA1-624-010		COIL,FM IFT 7-6.2 (COILS)
L906	88-ZA1-603-010		COIL,FM-OSC-U 2G
L951	8A-NF8-667-010		COIL,AM PACK 4(TOK)
R129	87-A00-262-080		RES,M/F 0.15-2W J
R130	87-A00-262-080		RES,M/F 0.15-2W J
R131	87-A00-262-080		RES,M/F 0.15-2W J
R132	87-A00-262-080		RES,M/F 0.15-2W J
R243	87-A00-440-050		RES,220-1/2W J RP
R244	87-A00-440-050		RES,220-1/2W J RP
R245	87-A00-440-050		RES,220-1/2W J RP
R246	87-A00-440-050		RES,220-1/2W J RP
R790	87-012-286-080		CAP, U 0.01-25
R991	87-012-195-080		C-CAP,U 100P-50CH
R993	87-012-195-080		C-CAP,U 100P-50CH
R995	87-012-195-080		C-CAP,U 100P-50CH
SFR451	87-024-435-080		SFR 33K RH 063EC
SFR452	87-024-435-080		SFR 33K RH 063EC
TH101	87-A91-042-080		C-THMS,100K 55001
TH102	87-A91-042-080		C-THMS,100K 55001
W99	8B-NFJ-620-010		F-CABLE,9P 2.5 280MM<U>
WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
X992	87-A70-306-010		VIB,XTAL 4.500MHZ CSA-309ST

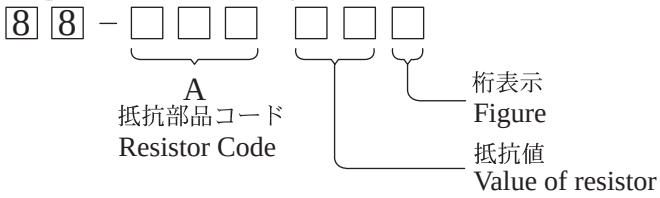
FRONT C.B

C39	87-A10-039-080		C-CAP,U 470P-50 J CH
C40	87-012-195-080		C-CAP,U 100P-50CH
C41	87-012-195-080		C-CAP,U 100P-50CH
C42	87-012-195-080		C-CAP,U 100P-50CH
C43	87-012-195-080		C-CAP,U 100P-50CH
C44	87-012-195-080		C-CAP,U 100P-50CH
C45	87-012-195-080		C-CAP,U 100P-50CH
C46	87-012-195-080		C-CAP,U 100P-50CH
C47	87-012-195-080		C-CAP,U 100P-50CH
C48	87-012-199-080		C-CAP,U 220P-50 J CH
C49	87-012-267-080		C-CAP,U 270P-50 B
C50	87-012-267-080		C-CAP,U 270P-50 B
C141	87-012-278-080		C-CAP,U 2200P-50 B
C142	87-010-785-080		C-CAP,U0.015-25BK
C153	87-A11-058-080		C-CAP,U 0.22-10 K B
C154	87-A10-189-040		CAP,E 220-10
C155	87-012-176-080		CAP 15P
C156	87-012-198-080		CAP 180P
C158	87-A10-039-080		C-CAP,U 470P-50 J CH
C161	87-012-274-080		CHIP CAP,U 1000P-50B
C162	87-012-274-080		CHIP CAP,U 1000P-50B
C165	87-012-268-080		C-CAP,U 330P-50 B
C166	87-010-552-040		CAP,E 22-16 GAS
C171	87-012-369-080		C-CAP,S 0.047-50F
C172	87-010-408-040		CAP,E 47-50 M 11L SME
C173	87-010-421-040		CAP,E 4.7-50 5L
C174	87-010-421-040		CAP,E 4.7-50 5L
C180	87-010-759-080		C-CAP,U, 0.1-25F
C185	87-010-759-080		C-CAP,U, 0.1-25F
C186	87-012-274-080		CHIP CAP,U 1000P-50B
C188	87-012-369-080		C-CAP,S 0.047-50F
C191	87-012-286-080		CAP, U 0.01-25
C192	87-010-759-080		C-CAP,U, 0.1-25F
C251	87-010-260-040		CAP,E 47-25 M 11L SME
C315	87-010-759-080		C-CAP,U, 0.1-25F
C391	87-012-274-080		CHIP CAP,U 1000P-50B
C392	87-012-199-080		C-CAP,U 220P-50 J CH
C451	87-010-759-080		C-CAP,U, 0.1-25F
C452	87-010-759-080		C-CAP,U, 0.1-25F
C453	87-010-759-080		C-CAP,U, 0.1-25F
C454	87-010-759-080		C-CAP,U, 0.1-25F
C455	87-010-759-080		C-CAP,U, 0.1-25F
C502	87-012-282-080		CAP, U 4700P-50<LH>
C503	87-010-112-040		CAP,E 100-16 M 11L SME<LH>
C505	87-010-492-040		CAP,E 0.33-50 M 5L SRE<LH>
C506	87-012-191-080		CHIP CAP 68 PF<LH>
C507	87-010-545-040		CAP,E 0.22-50 M 11L SME<LH>
C508	87-010-544-040		CAP,E 0.1-50 M 11L SME<LH>
C510	87-012-195-080		C-CAP,U 100P-50CH<LH>
C511	87-A12-065-080		CAP,E 33-16 SMG<LH>
C512	87-012-274-080		CHIP CAP,U 1000P-50B<LH>
C514	87-010-759-080		C-CAP,U, 0.1-25F<LH>
C515	87-012-274-080		CHIP CAP,U 1000P-50B<LH>
C517	87-012-274-080		CHIP CAP,U 1000P-50B<LH>
C518	87-010-759-080		C-CAP,U, 0.1-25F<LH>
C520	87-012-273-080		C-CAP,U 820P-50 B<LH>
C531	87-010-805-080		CAP, S 1-16<LH>
CN101	87-099-720-010		CONN,30P TYK-B(P)
CN103	87-099-196-010		CONN,8P 6216 V
CN201	87-099-017-010		CONN, 15P 6216 V<LH>
CN202	87-099-013-010		CONN,11P 6216 V<U>
CN301	87-099-209-010		CONN,4P 6216H
CN303	87-099-209-010		CONN,4P 6216H
CN911	87-099-212-010		CONN,5P 6216 V
FB501	87-A90-896-080		F-BEAD, 035600STY7<LH>
FC103	88-908-301-110		FF-CABLE,8P 1.25
FC201	88-915-101-110		FF-CABLE, 15P 1.25 100MM<LH>
FC202	88-911-101-110		FF-CABLE,11P 1.25<U>
FC301	88-904-091-110		FF-CABLE,4P 1.25 90MM
FC303	88-904-091-110		FF-CABLE,4P 1.25 90MM
FC911	88-905-151-110		FF-CABLE, 5P 1.25 150MM
FL401	8B-NF7-621-010		FL,BJ815GNK
J502	87-A61-242-010		JACK,6.3 BLK MONO W/SW V KM<LH>
L151	87-A50-656-010		COIL,CLK 5.76MHZ (TOKO)7KLY
LED401	87-A40-791-040		LED,LTL-307E RED
LED402	87-017-756-040		LED,SLR-342DCT31 ORN
S162	87-A91-645-010		SW,RTRY EC12E24304NON-CLICK
S301	87-A90-095-080		SW,TACT EVQ11G04M
S302	87-A90-095-080		SW,TACT EVQ11G04M
S321	87-A90-095-080		SW,TACT EVQ11G04M
S322	87-A90-095-080		SW,TACT EVQ11G04M
S323	87-A90-095-080		SW,TACT EVQ11G04M
S324	87-A90-095-080		SW,TACT EVQ11G04M
S326	87-A90-095-080		SW,TACT EVQ11G04M
S327	87-A90-095-080		SW,TACT EVQ11G04M

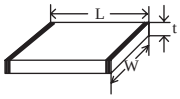
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S328	87-A90-095-080		SW,TACT EVQ11G04M
S335	87-A90-095-080		SW,TACT EVQ11G04M
VR501	87-NB7-602-010		VR,RTRY 10KAX1 1 V<LH>
PANORAMA AMP C.B			
C201	87-A12-088-080		CAP,E 2.2-50 SMG
C202	87-A12-088-080		CAP,E 2.2-50 SMG
C204	87-016-459-080		CAP,E 470-10 M SMG
C207	87-012-286-080		CAP, U 0.01-25
C208	87-012-286-080		CAP, U 0.01-25
C213	87-012-172-080		CAPACITOR CHIP U 10P CH
C215	87-010-831-080		C-CAP,U,0.1-16F
C216	87-010-831-080		C-CAP,U,0.1-16F
C301	87-012-274-080		CHIP CAP,U 1000P-50B
C302	87-012-274-080		CHIP CAP,U 1000P-50B
C303	87-A12-084-080		CAP,E 0.22-50 SMG
C304	87-A12-084-080		CAP,E 0.22-50 SMG
C309	87-A12-089-080		CAP,E 3.3-50 SMG
C310	87-A12-089-080		CAP,E 3.3-50 SMG
C311	87-A12-092-080		CAP,E 22-50 SMG
C312	87-A12-092-080		CAP,E 22-50 SMG
C315	87-012-199-080		CAP 220P
C316	87-012-199-080		CAP 220P
C317	87-012-286-080		CAP, U 0.01-25
C318	87-012-286-080		CAP, U 0.01-25
C401	87-010-831-080		C-CAP,U,0.1-16F
C402	87-010-831-080		C-CAP,U,0.1-16F
C403	87-A12-091-080		CAP,E 10-50 SMG
C404	87-A12-091-080		CAP,E 10-50 SMG
CN101	87-A60-134-010		CONN,9P V FE
CN102	87-099-043-010		CONN 2P EH
CN104	87-049-919-010		CONN,3P EH V WHT
R333	87-A00-258-080		RES,M/F 0.22-1W J
R334	87-A00-258-080		RES,M/F 0.22-1W J
PT C.B			
CN1	87-A61-110-010		CONN,9P V TID-A<LH>
⚠ PT1	8B-NF7-612-010		PT,BNF-7LH<LH>
⚠ PT1	8B-NF7-611-010		PT,BNF-7U<U>
⚠ PT2	8B-MA6-673-010		PT,SUB BMA H (VRK)<LH>
⚠ PT81	8B-MA6-671-010		PT,SUB BMA U (VRK)<U>
⚠ RY1	87-A91-339-010		RELAY,AC DC12V G5PA-2<LH>
⚠ RY81	87-A91-418-010		RELAY,AC12V G5PA-1-M<U>
⚠ S1	87-A90-165-010		SW,SL 1-2-3 SWS2301<LH>
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC<LH>
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC<LH>
⚠ T81	87-A60-317-010		TERMINAL, 1P MSC<U>
⚠ T82	87-A60-317-010		TERMINAL, 1P MSC<U>
WH81	87-A90-510-010		HLDR,WIRE 2.5-9P<U>
M-OP-PANEL C.B			
CN304	87-099-209-010		CONN,4P 6216H
S341	87-A90-095-080		SW,TACT EVQ11G04M
S342	87-A90-095-080		SW,TACT EVQ11G04M
S343	87-A90-095-080		SW,TACT EVQ11G04M
S344	87-A90-095-080		SW,TACT EVQ11G04M
S345	87-A90-095-080		SW,TACT EVQ11G04M
S346	87-A90-095-080		SW,TACT EVQ11G04M
S347	87-A90-095-080		SW,TACT EVQ11G04M
S348	87-A90-095-080		SW,TACT EVQ11G04M
S349	87-A90-095-080		SW,TACT EVQ11G04M
S350	87-A90-095-080		SW,TACT EVQ11G04M
S351	87-A90-095-080		SW,TACT EVQ11G04M
S352	87-A90-095-080		SW,TACT EVQ11G04M
S371	87-A91-991-010		SW,RTRY REO12303PVB8H
S-OP-PANEL C.B			
CN302	87-A60-083-010		CONN,04P H 9604S-04F
S303	87-A90-095-080		SW,TACT EVQ11G04M
S304	87-A90-095-080		SW,TACT EVQ11G04M
S305	87-A90-095-080		SW,TACT EVQ11G04M<LH>
S306	87-A90-095-080		SW,TACT EVQ11G04M<LH>
S307	87-A90-095-080		SW,TACT EVQ11G04M
S308	87-A90-095-080		SW,TACT EVQ11G04M
S329	87-A90-095-080		SW,TACT EVQ11G04M
S330	87-A90-095-080		SW,TACT EVQ11G04M
S332	87-A90-095-080		SW,TACT EVQ11G04M
S333	87-A90-095-080		SW,TACT EVQ11G04M
MOTOR C.B			
CN912	87-099-210-010		CONN,5P 6216 H
M900	87-045-305-010		MOT,RF-500 TB
S911	87-036-109-010		PUSH SWITCH
S912	87-036-109-010		PUSH SWITCH
BOX SW C.B			
CNA901	8B-NF7-620-010		CONN ASSY,3P V 120MM
S901	87-036-252-010		SW,PUSH SPPB 51
S902	87-036-252-010		SW,PUSH SPPB 51
FAN C.B			
C501	87-A12-087-080		CAP,E 1-50 SMG
C502	87-A12-071-080		CAP,E 47-25 SMG
C503	87-A12-071-080		CAP,E 47-25 SMG
CN502	87-A60-688-010		CONN,4P H GRY TUC-P04X-C1
CN503	87-A60-619-010		CONN,2P V 2MM JMT
DECK C.B<U>			
CON105	87-099-753-010		CONN,11P H 9604
SFR1	87-024-581-010		SFR,3.3K DIA6V K0A
SOL1	82-ZM3-628-010		SOL ASSY 23 SO
SOL2	82-ZM3-628-010		SOL ASSY 23 SO
SW1	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW4	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW5	87-A90-248-010		SW,MICRO ESE11SH2CXQ
M1	87-045-347-010		MOT,SHU2L 70
DECK C.B<LH>			
CON1	87-099-756-010		CONN,15P 9604S F
SFR1	87-024-581-010		SFR,3.3K DIA6V K0A
SOL1	82-ZM3-627-010		SOL ASSY 27 SO
SOL2	82-ZM3-627-010		SOL ASSY 27 SO
SW1	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW4	87-036-110-010		PUSH SWITCH
SW5	87-036-110-010		PUSH SWITCH
SW6	87-036-110-010		PUSH SWITCH
SW8	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW9	87-A90-248-010		SW,MICRO ESE11SH2CXQ
M1	87-045-347-010		MOT,SHU2L 70
HEAD-1 C.B			
	85-ZM3-602-010		PWB,FLEX A
CON301	85-MA2-615-010		CONN ASSY 3P-PB<U>
CON301	87-NF6-615-010		CONN ASSY,3P PB<LH>
HEAD-2 C.B<LH>			
	85-ZM3-602-010		PWB,FLEX A
CON351	87-NF6-616-010		CONN ASSY,8P-RPB

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

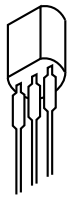
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

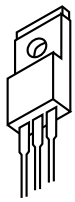
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード ：A Resistor Code：A
1/16W	1005	±5%	CJ		1.0	0.5	0.35	104
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



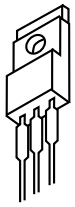
2SA1980G
2SA933S
CDA1585BC
CSC4115BC
KTA1266GR
KTC3198GR

2SA1979O/Y
2SA1981Y
2SC5342Y
2SC5343G

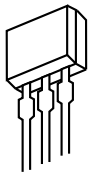


2SB1342
2SD1933
FP1016

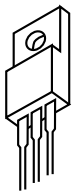
CC5551



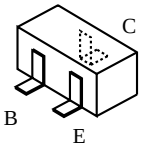
2SK2937



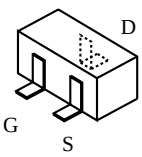
2SJ460
2SK2541



CSB1370EF



2SA1235F
2SC2714O
2SC3052F
CMBT5551
CMBT5401
KRA102S
KRA104S
KRA107S
KRC107S
RT1P141C



2SK2158

32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

A MAIN C.B

J831 ANTENNA

AM LOOP

FM 75Ω

TO CD MECHANISM BZG-5 ZB3N1M (FC602)

J602 VIDEO/AUX

J207 SATELLITE SPEAKERS SPEAKER IMP:8Ω

J203 FRONT SPEAKERS SPEAKER IMP:6Ω

TO PANORAMA AMP C.B CN102

TO PT C.B U:WH081 LH:CN1 (W099) (CNA001)

TO PANORAMA AMP C.B CN104

TO HEAD-1 C.B CON301

LH:TO HEAD-2 C.B CON351 U:TO DECK-2 CON351

TO FRONT C.B CN101

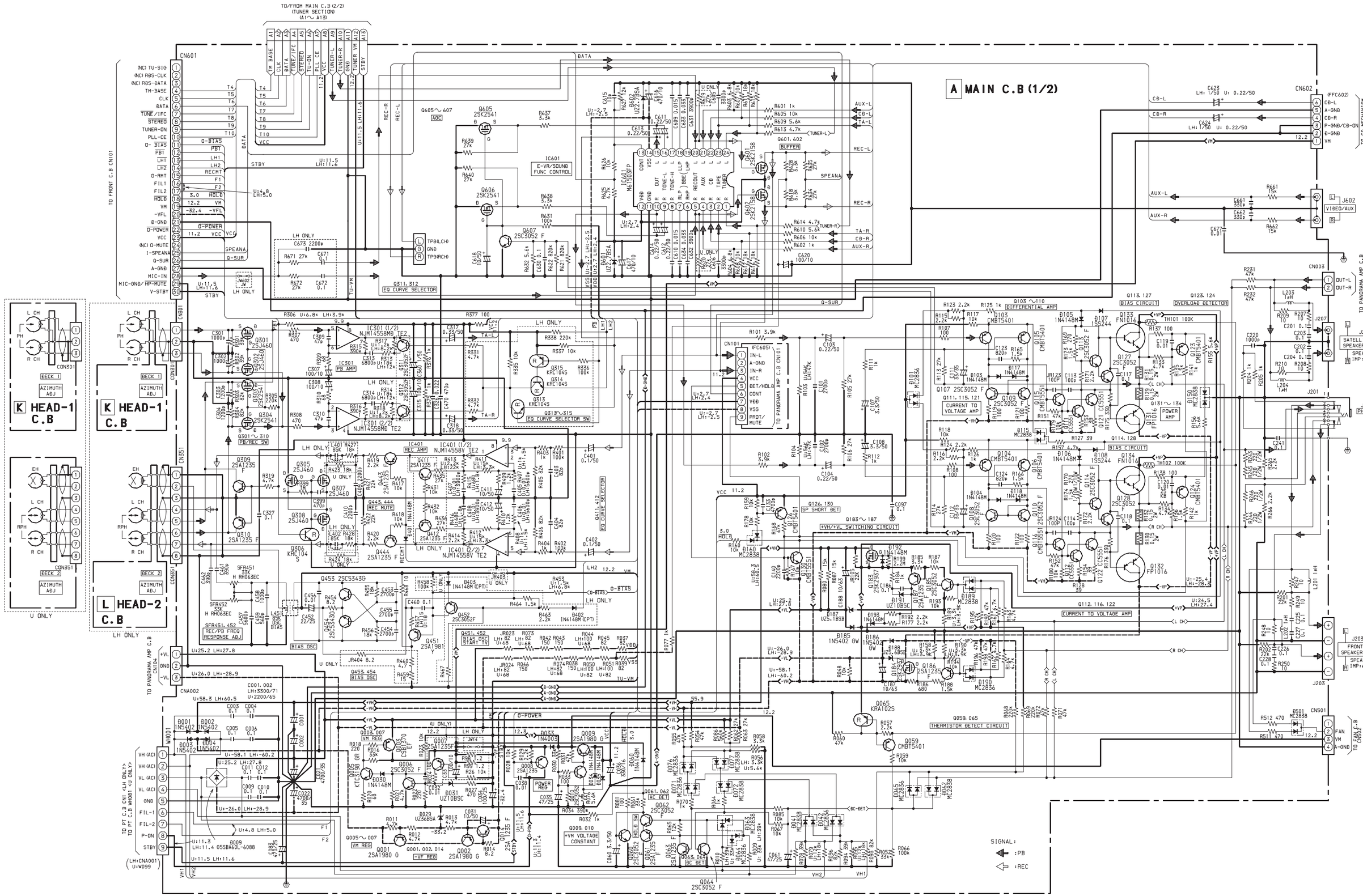
J201 PHONES

(FC605) TO PANORAMA AMP C.B CN101

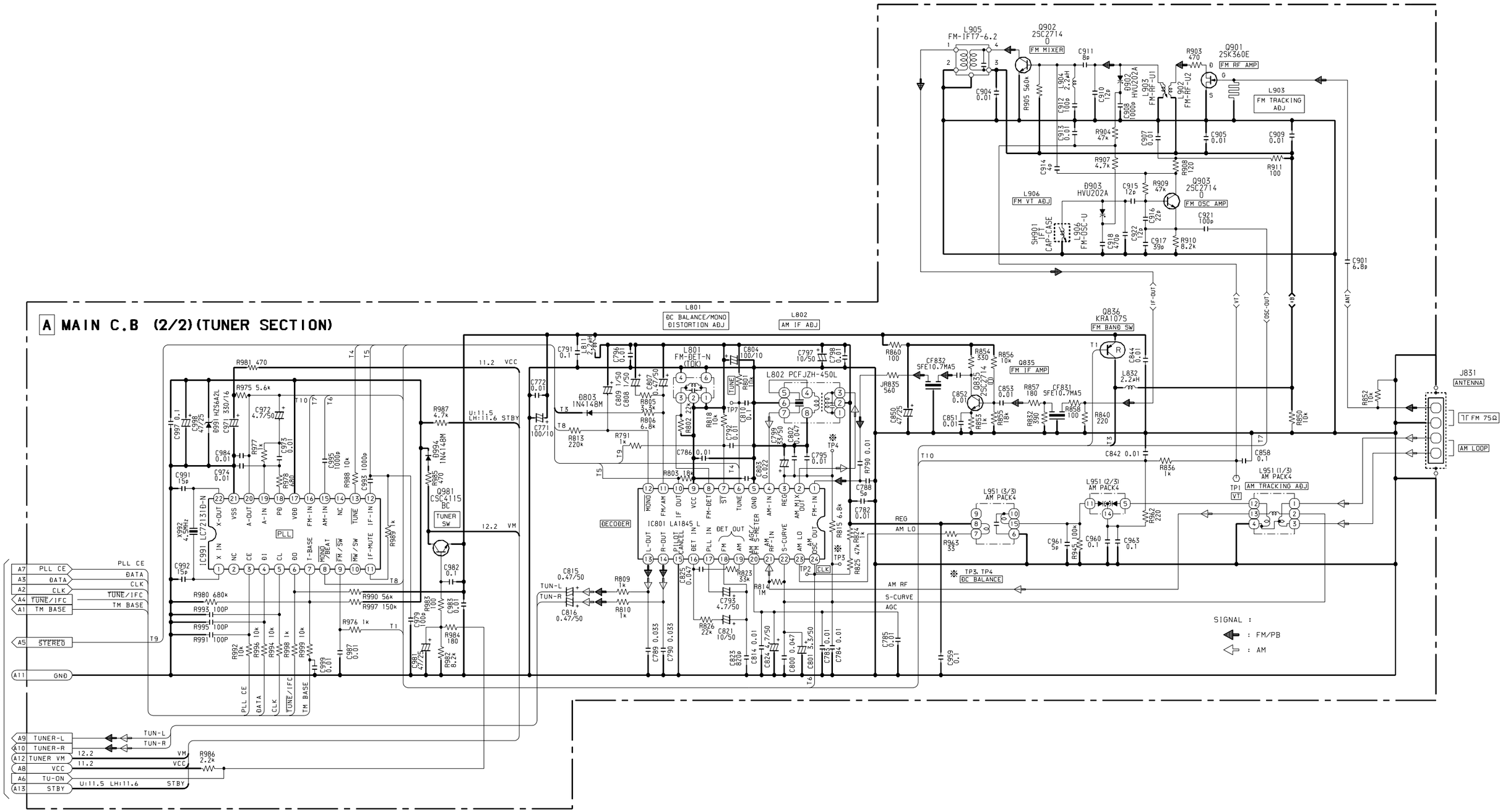
FAN

I FAN C.B

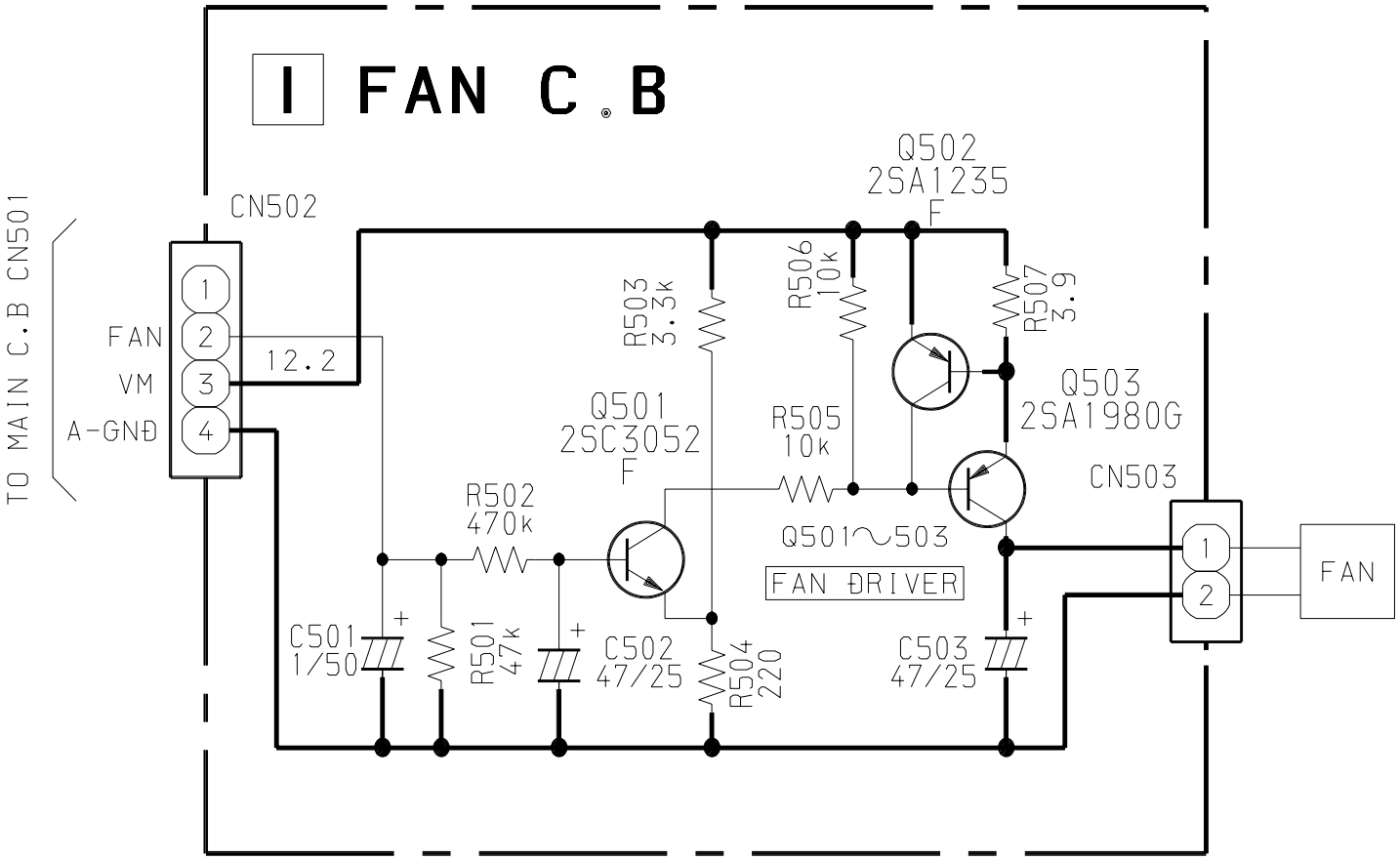
SCHEMATIC DIAGRAM – 1 (MAIN 1 / 2)



SCHEMATIC DIAGRAM – 2 (MAIN 2 / 2: TUNER)



SCHEMATIC DIAGRAM – 3 (FAN)



32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

B FRONT C.B

S335 PANEL AUTO/MANU
S162 VOLUME
S327 PANEL OPEN/CLOSE
S323 CD
S324 VIDEO/AUX
S322 TUNER/BAND
S321 TAPE DECK 1/2
S302 ▲CD OPEN/CLOSE
IC161 REMOTE SENSOR
FL401 (DISPLAY)

S301. LED401 POWER ⏻STAND⊘BY/ON
S326 DEMO
S328. LED402 PANORAMA

TO CD MECHANISM (FC103) BZG-5 ZD3N1M
CN103
TO MAIN C.B CN601
(FC911)
VR501 MIC MIXING
J502 MIC
CN911
CN303
CN304
CN202
CN201
CN301
(FC303) TO M-OP-PANEL C.B CN304
(FC301) TO S-OP-PANEL C.B CN302
(RED) CNA901 (1/2)
(FC201) <LH ONLY>
(FC202) <U ONLY>
TO DECK C.B CON1 <LH ONLY>
TO DECK C.B CON105 <U ONLY>

G MOTOR C.B

M900 (DOOR MOTOR)
S911 (CLOSE)
S912 (OPEN)
CN912

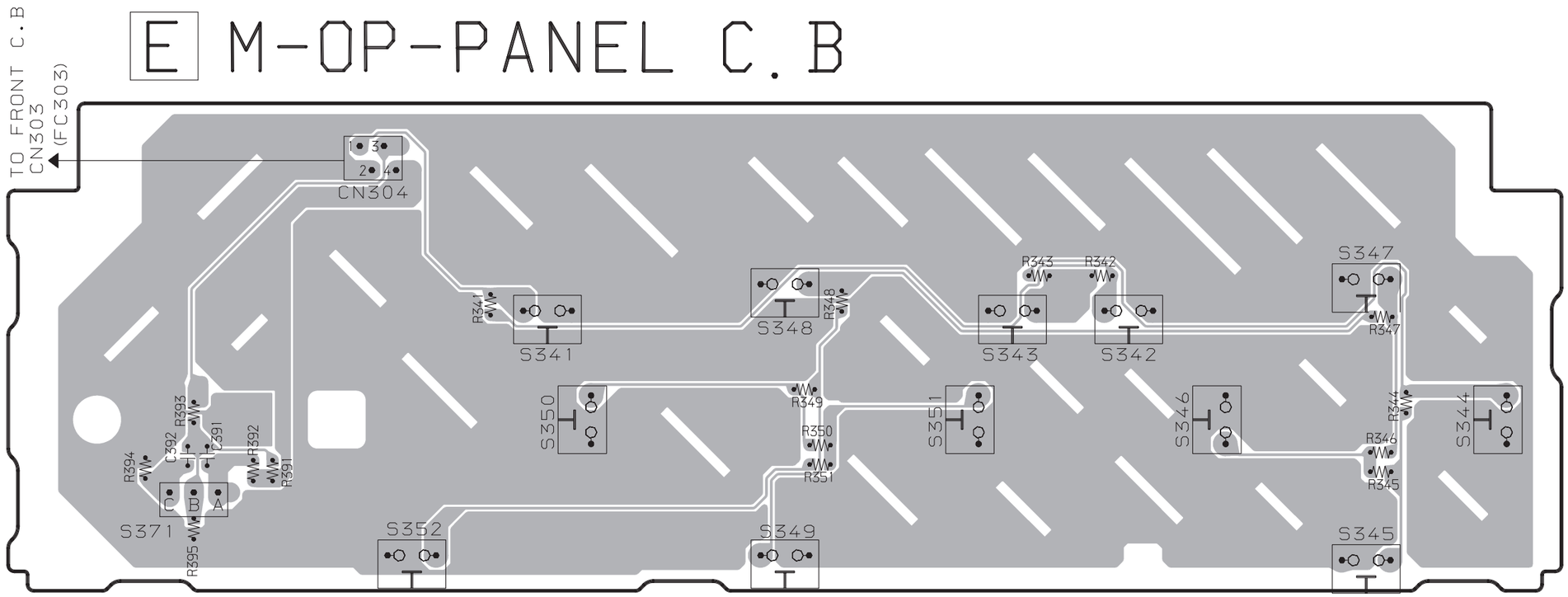
H BOX SW C.B

S901 BOX2 SW
S902 BOX1 SW
CNA901 (2/2)

32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

E M-OP-PANEL C.B



S347
ĐISC CHANGE

S344
ĐISC ĐIRECT PLAY 1

S345
ĐISC ĐIRECT PLAY 2

S346
ĐISC ĐIRECT PLAY 3

S371
MULTI JOG

S352
ENTER

S341
❚❚SET

S348
◀◀▶▶PRESET

S343
SYNC ĐUB

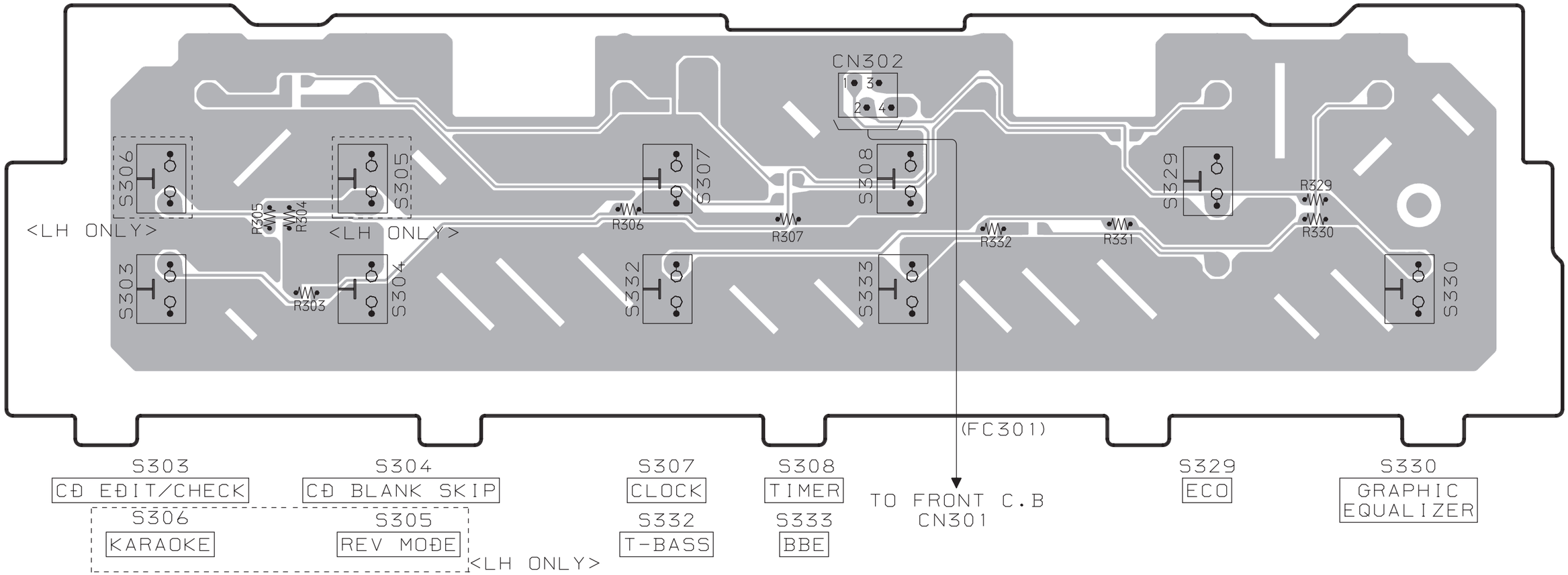
S342
● REC/REC MUTE

S350
▶▶/▶▶❙ UP TUNING

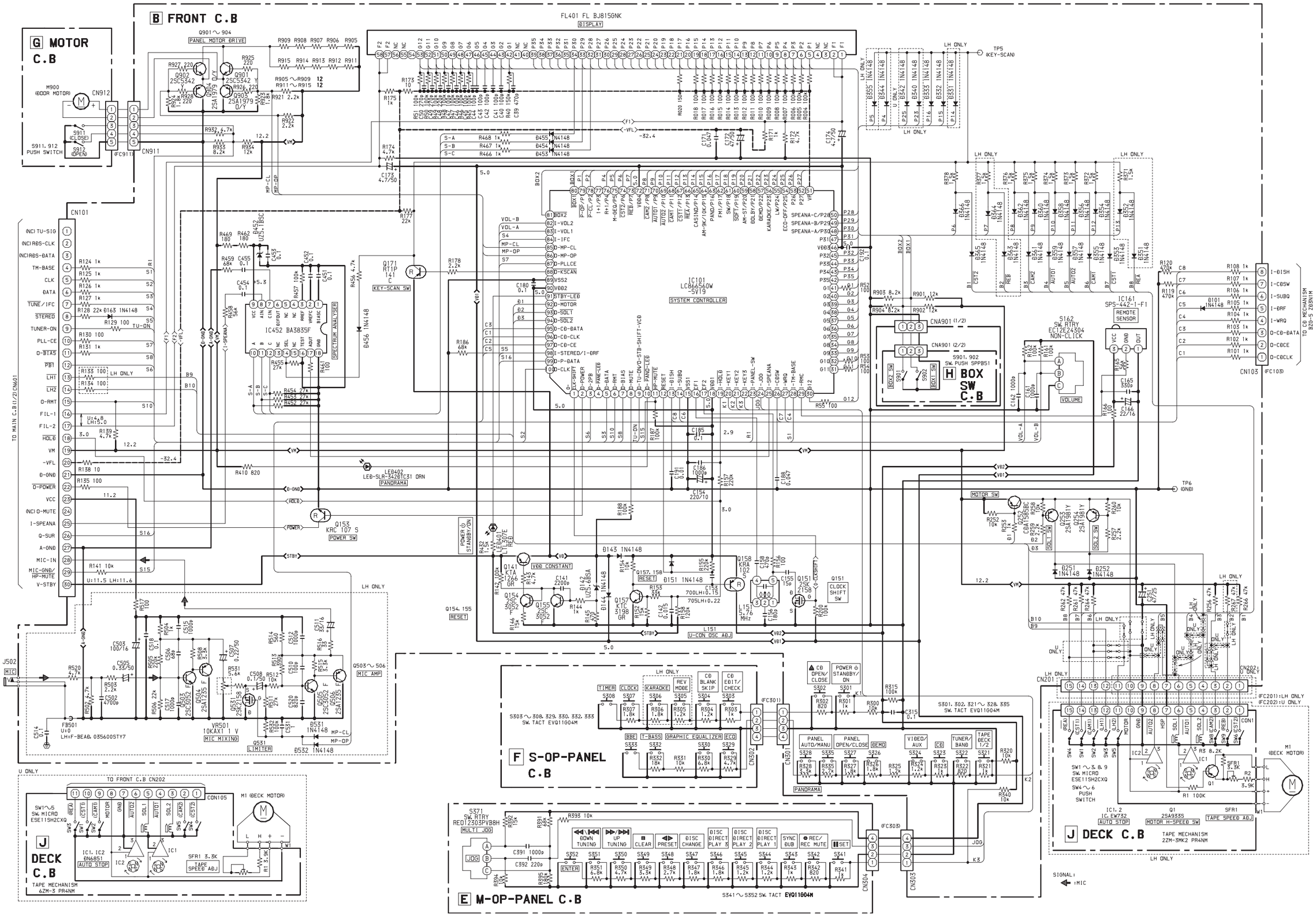
S349
■ CLEAR

S351
◀◀/❙◀◀ ĐOWN TUNING

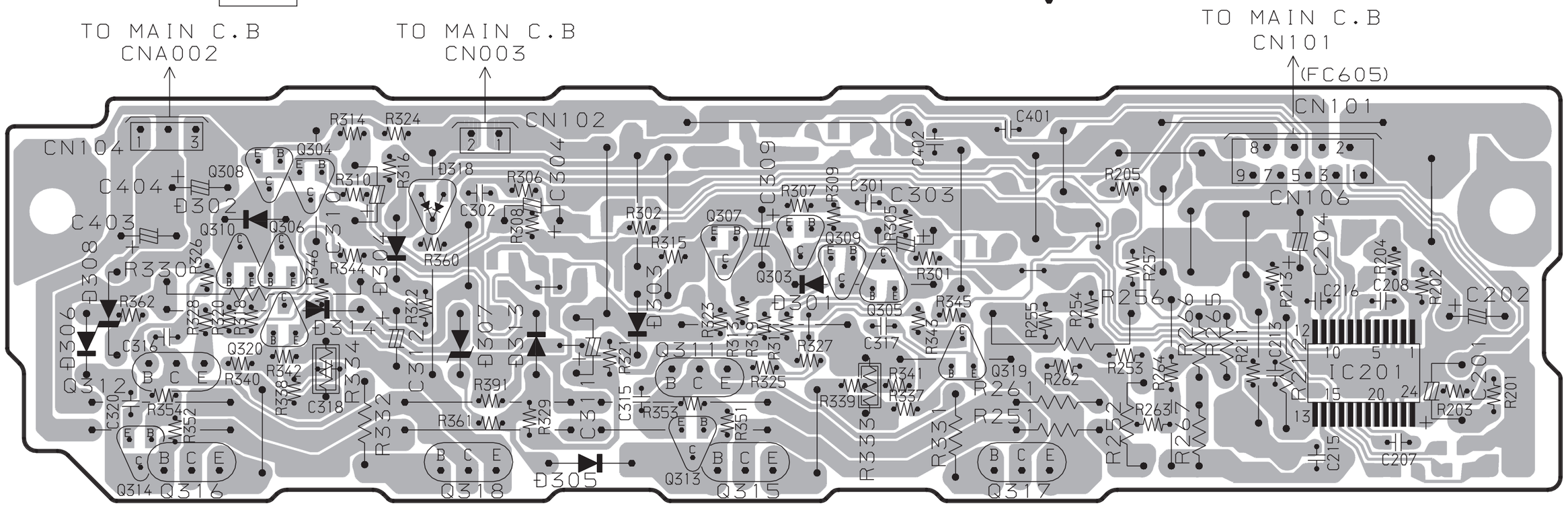
F S-OP-PANEL C.B



SCHEMATIC DIAGRAM – 4 (FRONT)

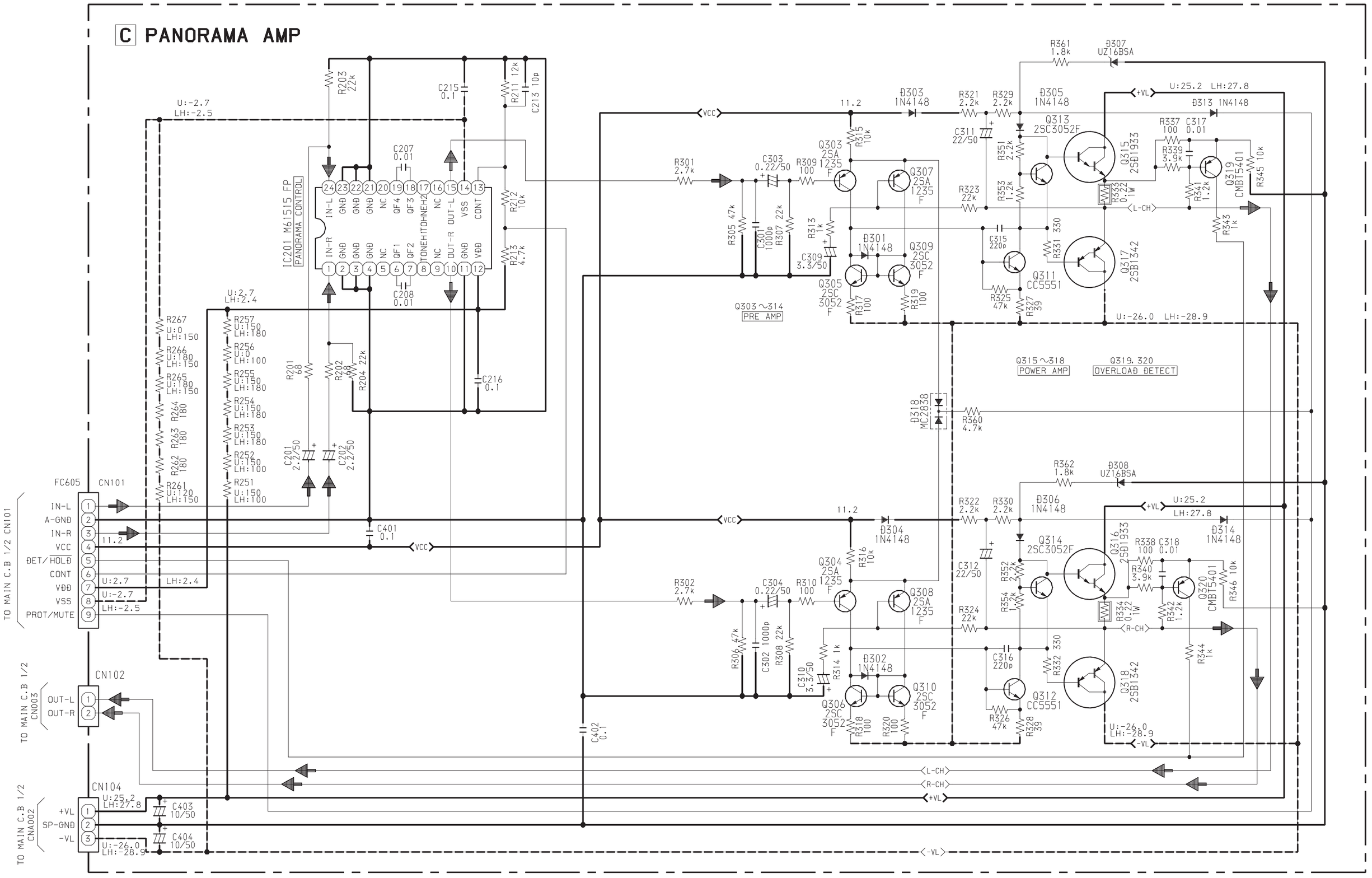


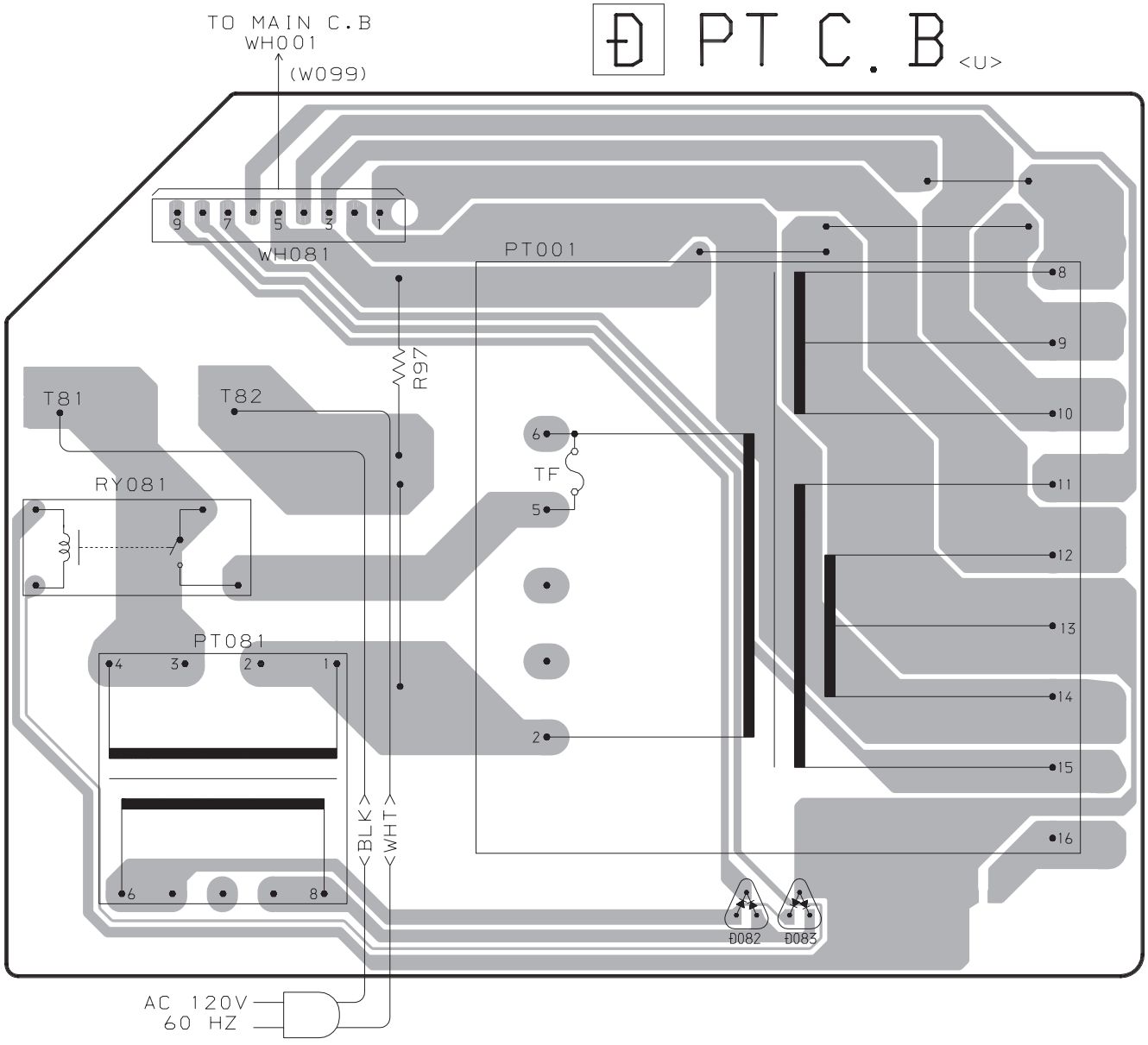
C PANORAMA AMP C.B



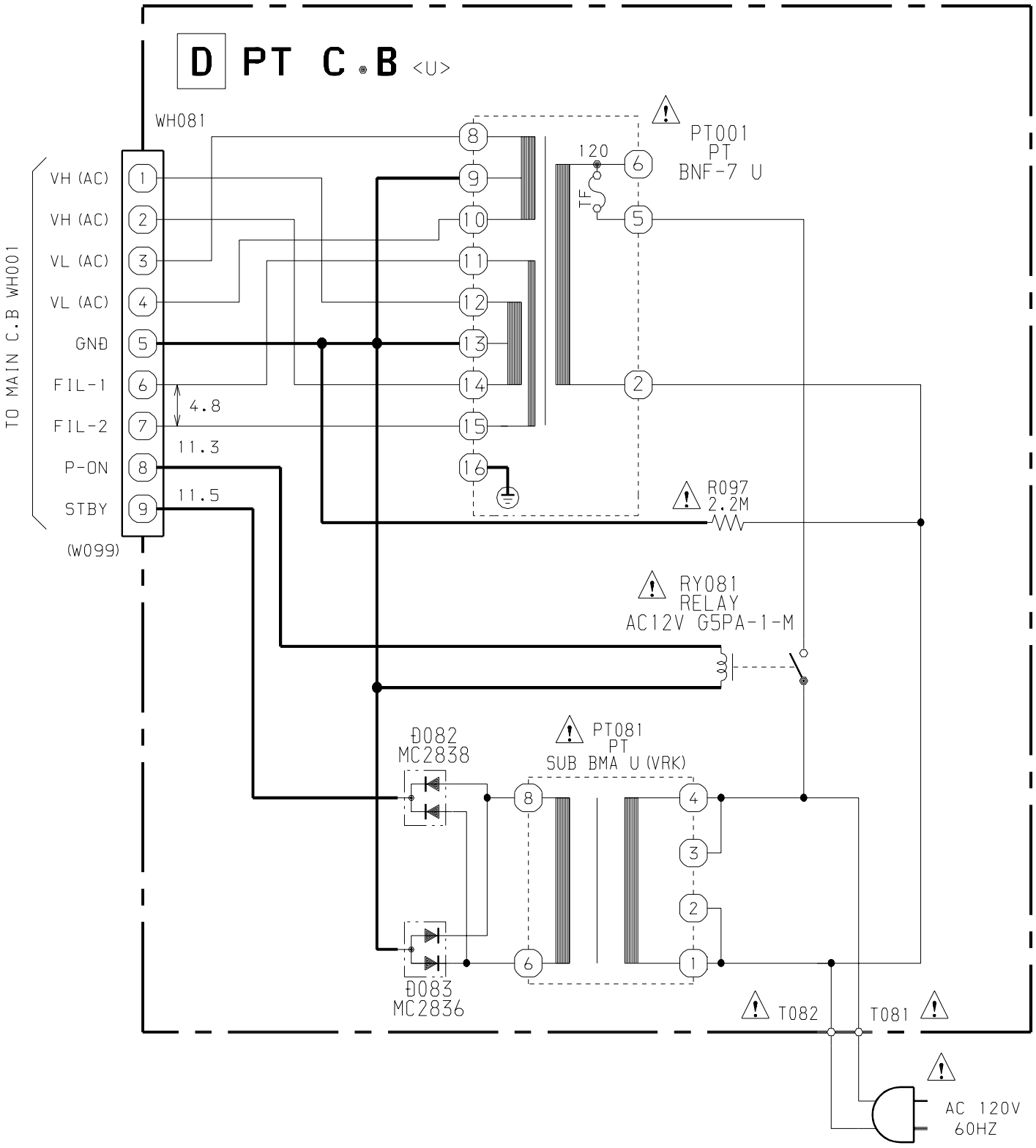
SCHEMATIC DIAGRAM – 5 (PANORAMA AMP)

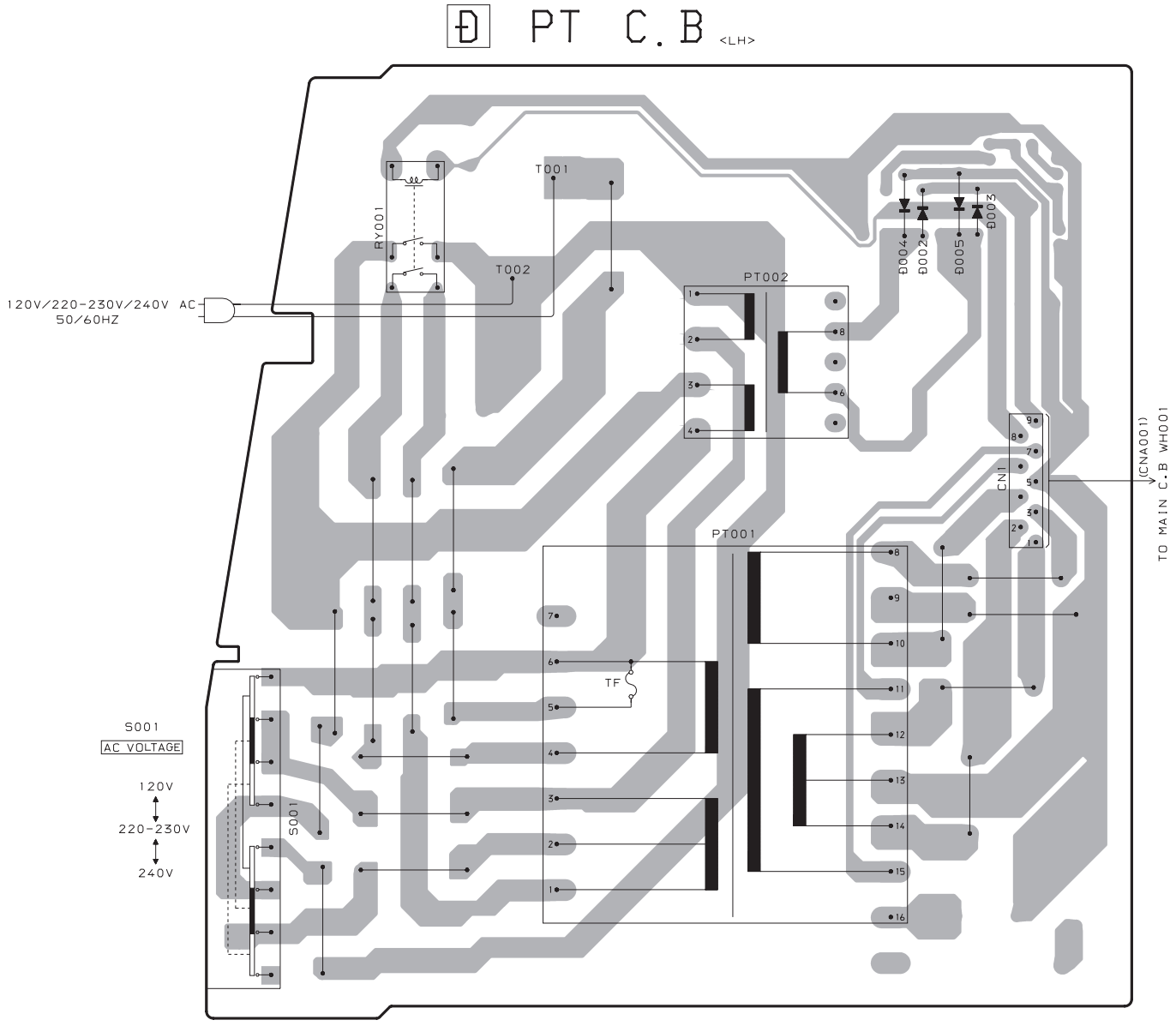
C PANORAMA AMP



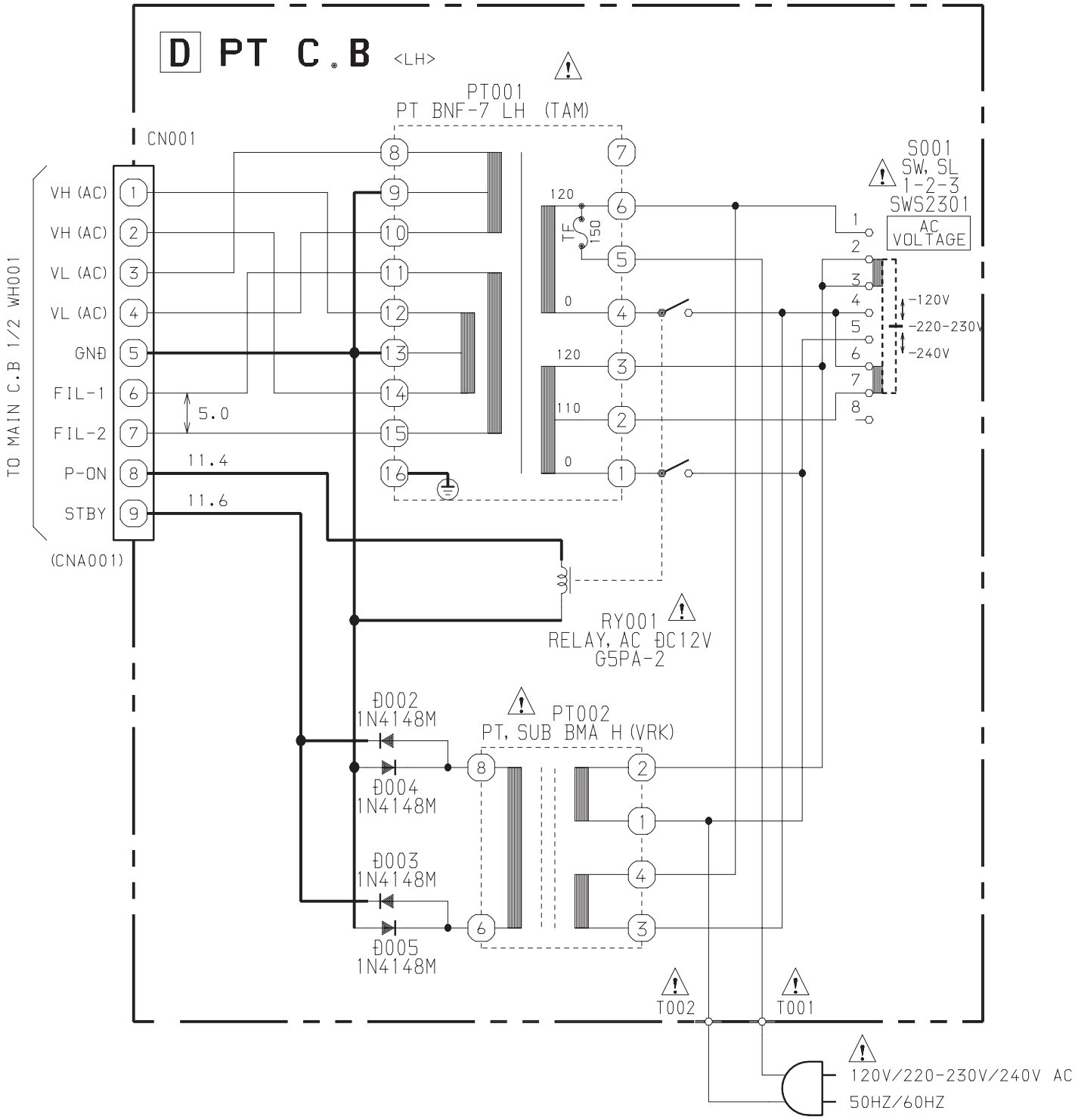

TO MAIN C.B
WH001
(W099)
PT C.B <U>
WH081
PT001
R97
T81
T82
RY081
TF
PT081
BLK
WHT
AC 120V
60 HZ
Đ082
Đ083

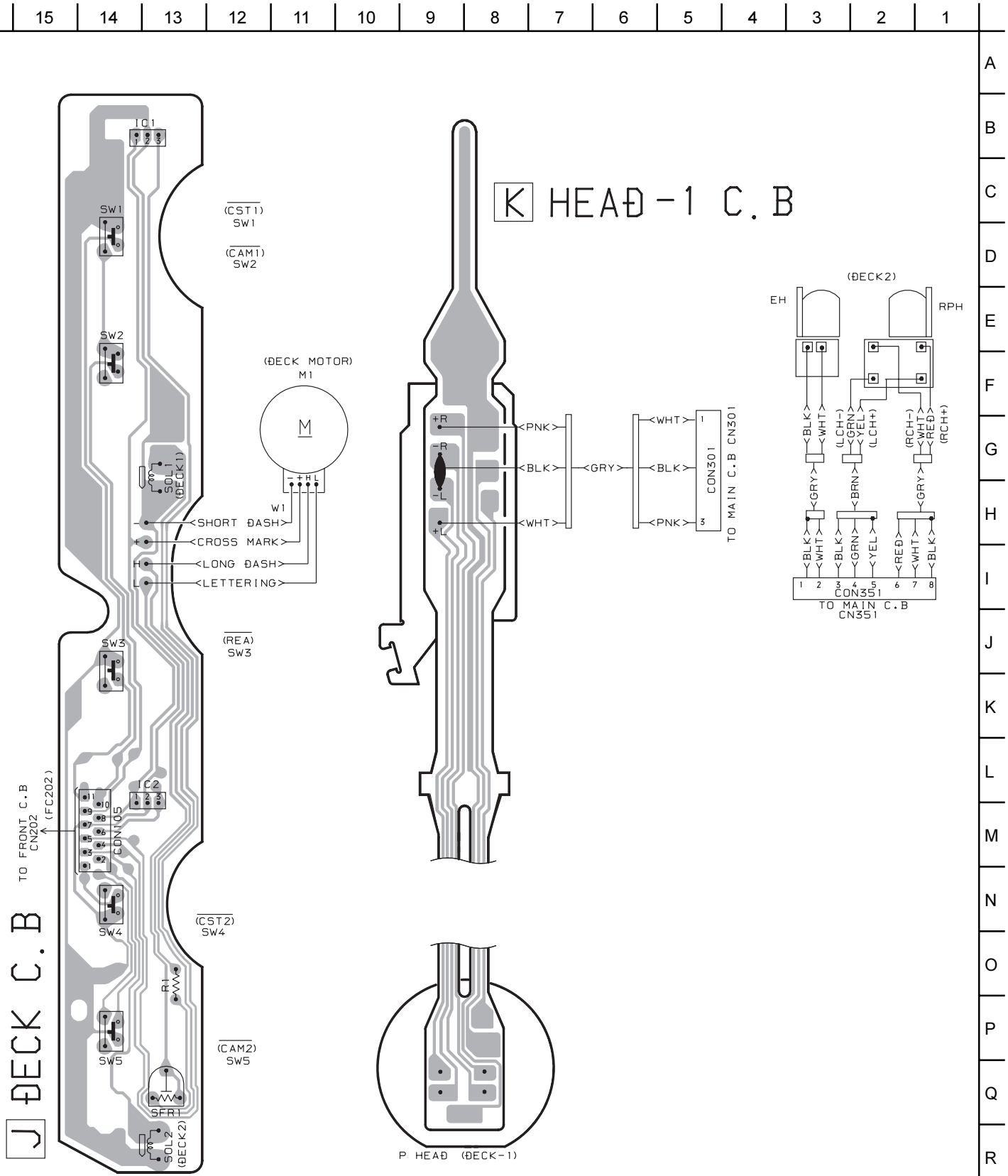
SCHEMATIC DIAGRAM – 6 (PT: U)

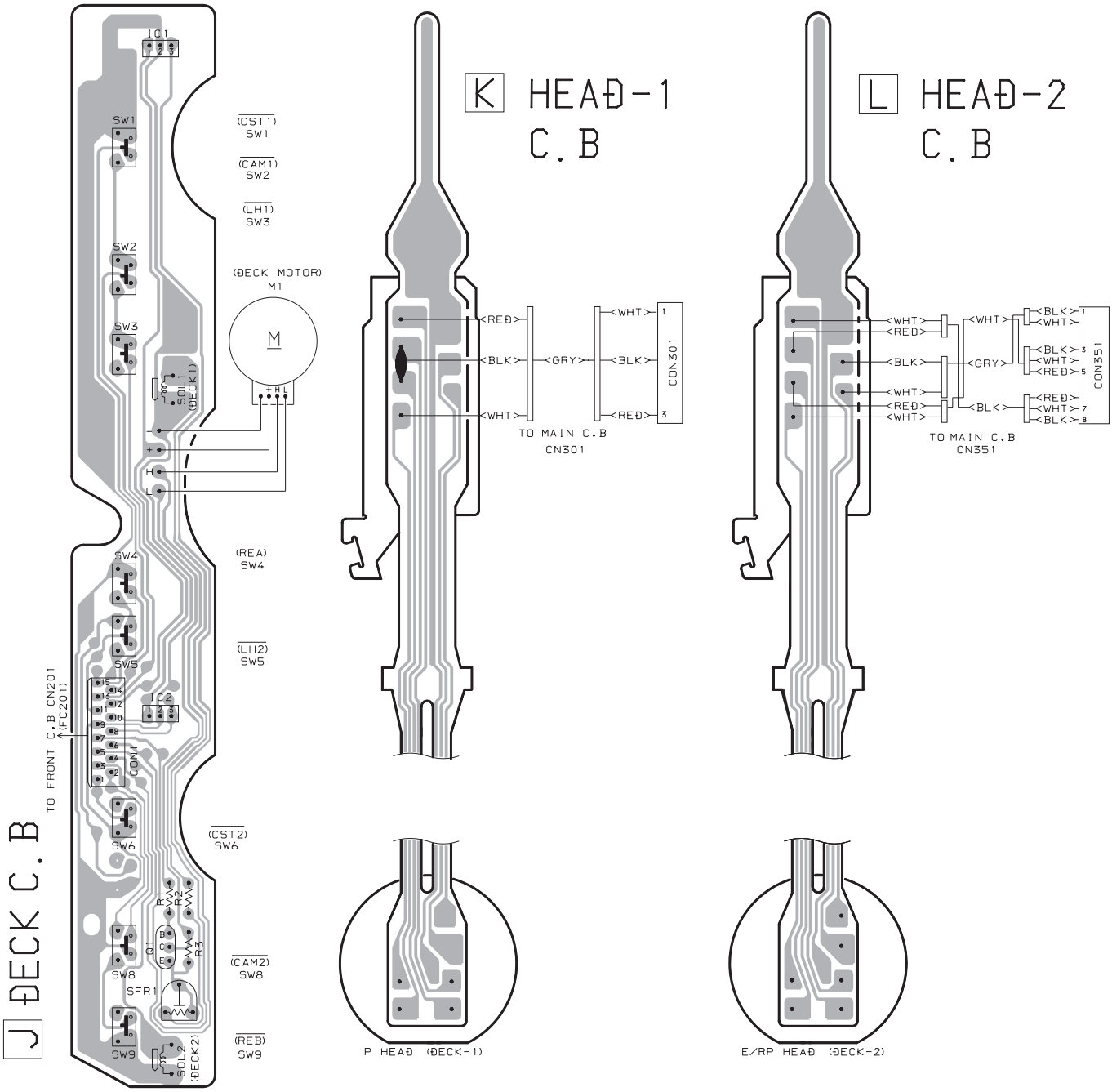



PT C.B <LH>
T001
RY001
T002
PT002
D004
D002
D005
D003
120V/220-230V/240V AC
50/60HZ
CN1
(CNA001)
TO MAIN C.B WH001
PT001
TF
S001
AC VOLTAGE
120V
220-230V
240V
S001

SCHEMATIC DIAGRAM – 7 (PT: LH)

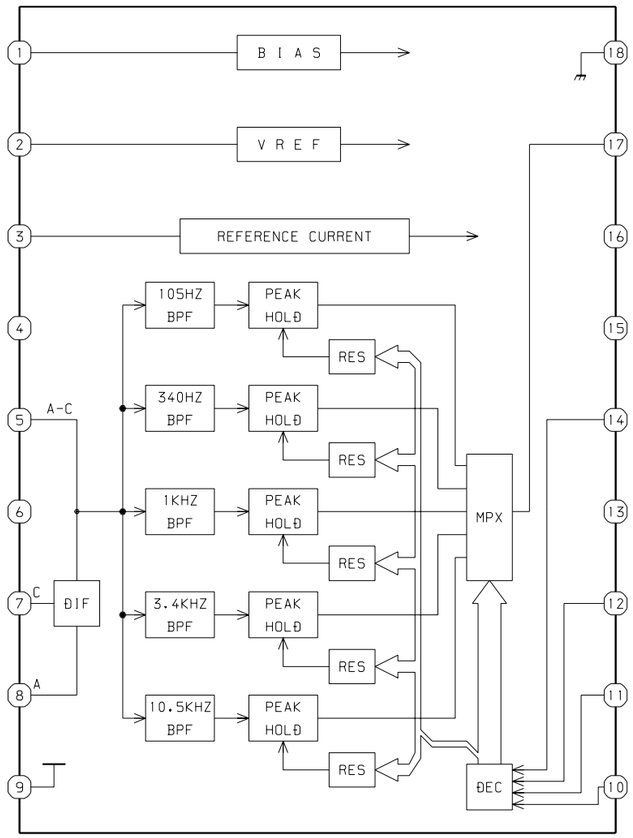



15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
A B C D E F G H I J K L M N O P Q R S T U
J DECK C.B
TO FRONT C.B CN202 (FC202)
IC1
IC2
CON105
SW1
SW2
SW3
SW4
SW5
(CST1) SW1
(CAM1) SW2
(REA) SW3
(CST2) SW4
(CAM2) SW5
R1
SER1
SOL1 (DECK1)
SOL2 (DECK2)
(DECK MOTOR) M1
M
W1
SHORT DASH
CROSS MARK
LONG DASH
LETTERING
K HEAD-1 C.B
+R
-R
-L
+L
PNK
BLK
GRY
WHT
CON301
TO MAIN C.B CN301
P HEAD (DECK-1)
(DECK2)
EH
RPH
(LCH-) (LCH+) (RCH-) (RCH+)
BLK WHT GRY GRN YEL BRN RED
CON351
TO MAIN C.B CN351

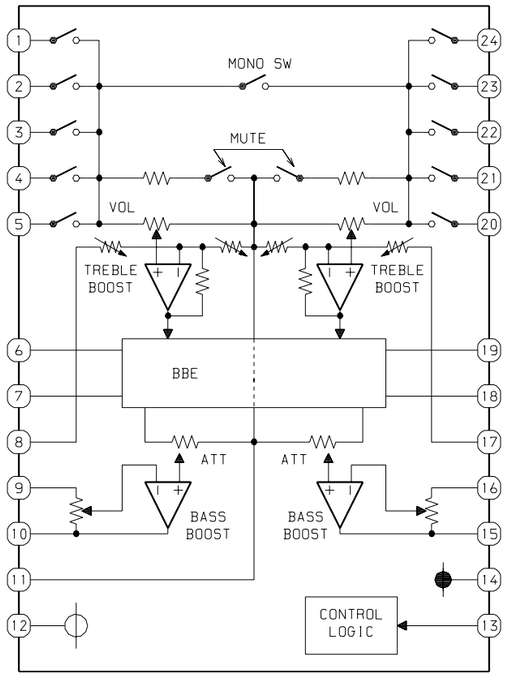

J DECK C.B
TO FRONT C.B CN201
(FFC201)
IC1
SW1
(CST1)
SW1
(CAM1)
SW2
(LH1)
SW3
SW2
SW3
(DECK MOTOR)
M1
M
SOL1
(DECK1)
SW4
(REA)
SW4
SW5
(LH2)
SW5
IC2
CONT
SW6
(CST2)
SW6
R1
R2
R3
Q1
SW8
(CAM2)
SW8
SFR1
SW9
(REB)
SW9
SOL2
(DECK2)
K HEAD-1
C.B
RED
BLK
WHT
GRY
CON301
TO MAIN C.B
CN301
P HEAD (DECK-1)
L HEAD-2
C.B
CON351
TO MAIN C.B
CN351
E/RP HEAD (DECK-2)

IC BLOCK DIAGRAM

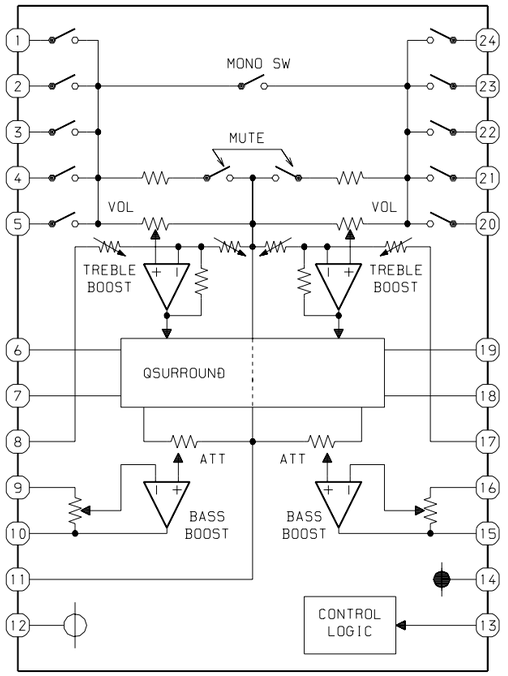
IC, BA3835F



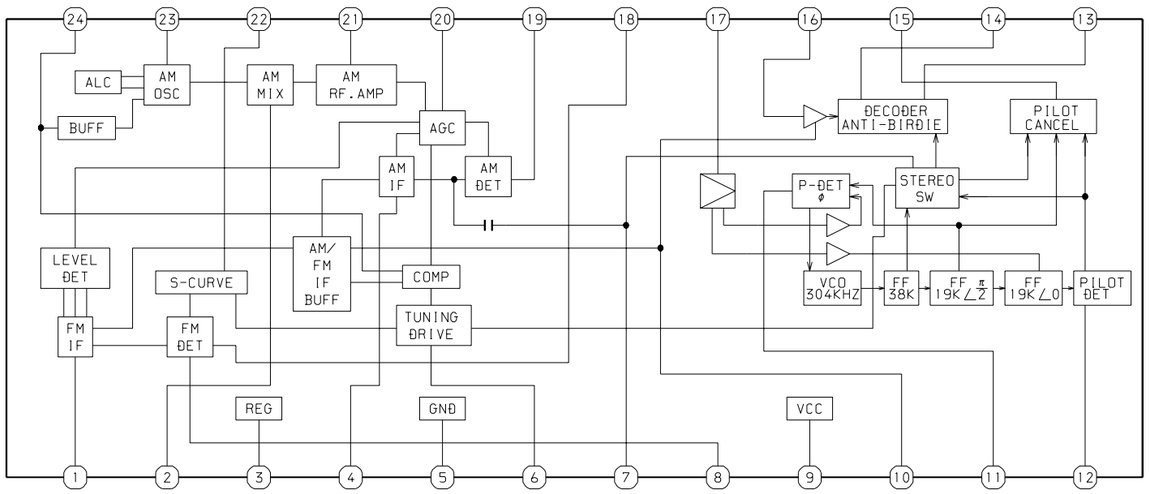
IC, M61503FP



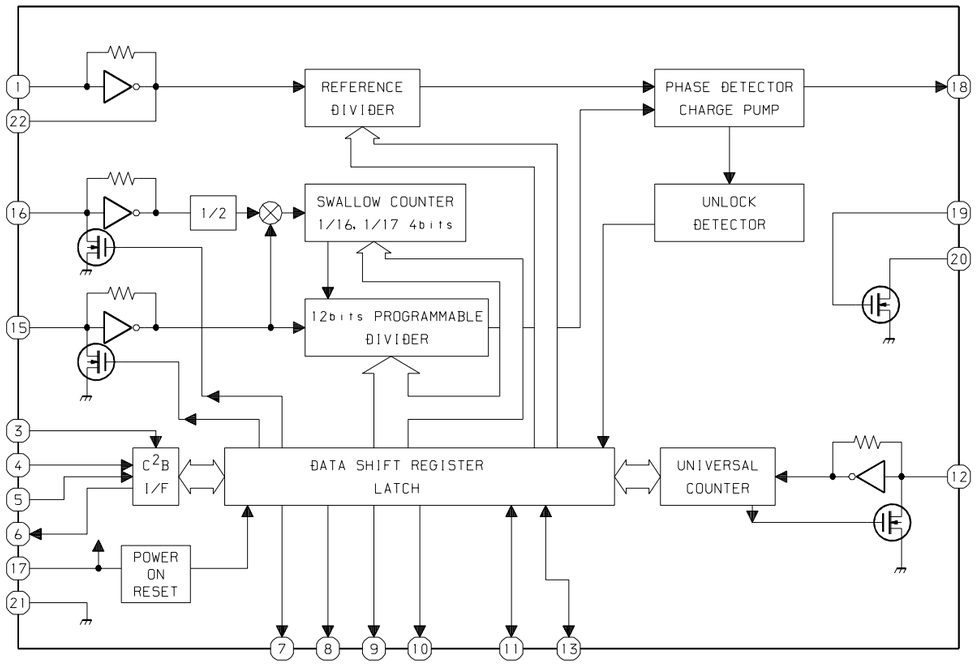
IC, M61515FP



IC, LA1845L

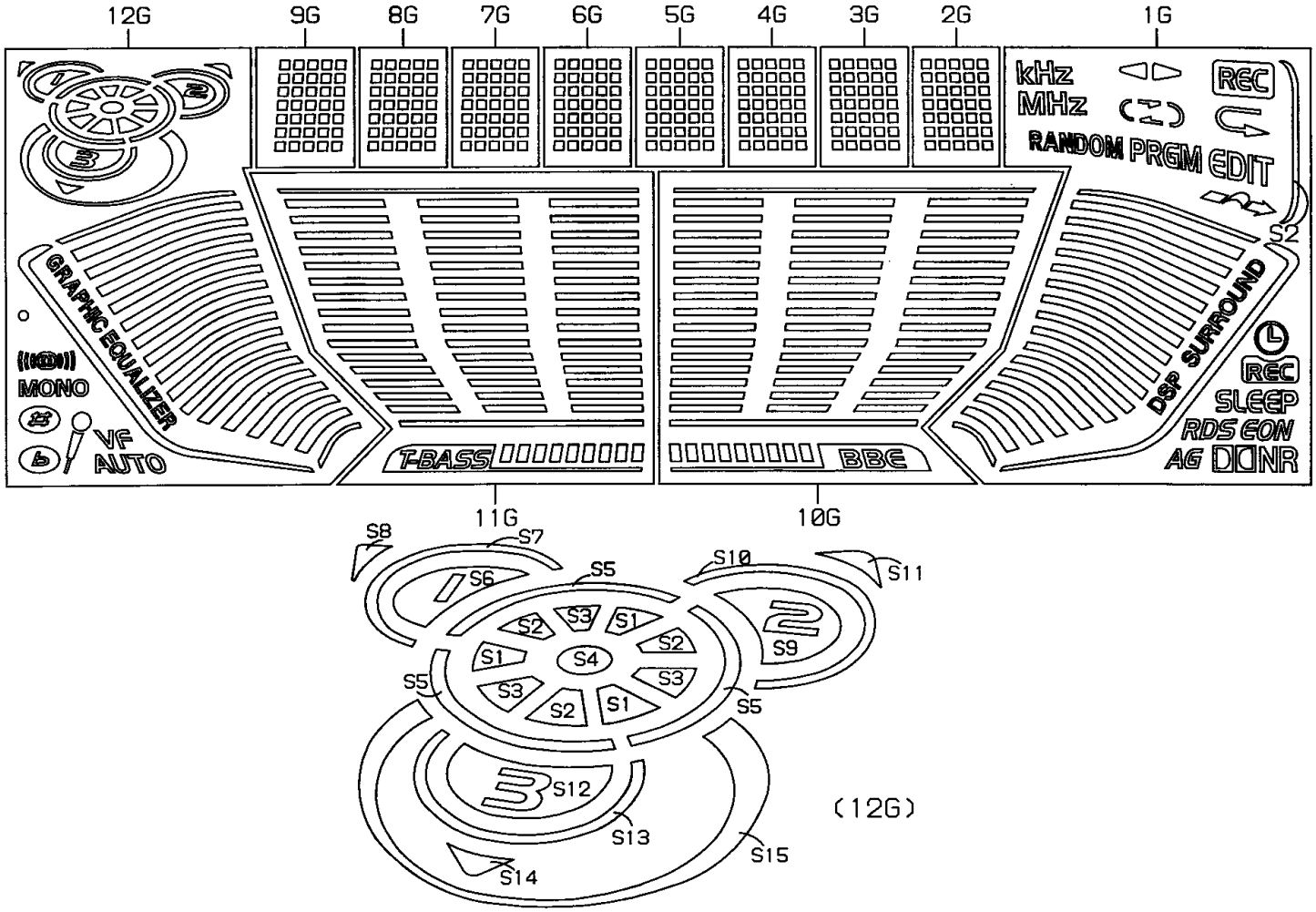


IC, LC72131D-N



FL (BJ815GNK) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT



ANODE CONNECTION

	12G	11G	10G	9G~2G	1G
P1	S1	S1	S1	1-1	S1
P2	S2	S2	S2	2-1	S2
P3	S3	S3	S3	3-1	S3
P4	S4	S4	S4	4-1	
P5	S5	B1	B1	5-1	EDIT
P6	S6	–	–	1-2	
P7	S7	–	–	2-2	REC〈UP〉
P8	S8	B2	B2	3-2	B1
P9	S9	B3	B3	4-2	B2
P10	S10	B4	B4	5-2	B3
P11	S11	B5	B5	1-3	B4
P12	S12	B6	B6	2-3	B5
P13	S13	B7	B7	3-3	B6
P14	S14	B8	B8	4-3	B7
P15	S15	B9	B9	5-3	B8
P16	○	B10	B10	1-4	B9
P17	S16	B11	B11	2-4	B10
P18	S17	B12	B12	3-4	PRGM
P19	B1	B13	B13	4-4	
P20	B2	B14	B14	5-4	
P21	B3	B15	B15	1-5	
P22	B4	B16	B16	2-5	
P23	B5	B17	B17	3-5	
P24	B6	B18	B18	4-5	RANDOM
P25	B7	B19	B19	5-5	MHz
P26	B8	B20	B20	1-6	kHz
P27	B9	B21	B21	2-6	–
P28	B10	B22	B22	3-6	–
P29		B23	B23	4-6	
P30	MONO	B24	B24	5-6	REC〈DOWN〉
P31	VF	B25	B25	1-7	SLEEP
P32	AUTO	B26	B26	2-7	RDS
P33		–	–	3-7	EON
P34		–	–	4-7	AG
P35		–	–	5-7	DNR

IC DESCRIPTION

IC, LC866560W-5V19

Pin No.	Pin Name	I/O	Description
1	O-C-SHIFT	O	Clock shift output for micro computer when tuner receiving broadcast.
2	O-POWER	O	Power control ON/OFF output.
3	O-2PB	O	DECK 2 / DECK 1 play output.
4	O-PANE-LED	O	Moving PANEL LED ON/OFF output (Not used).
5	O-DATA	O	Data output.
6	O-RMT	O	REC MUTE output.
7	O-BIAS	O	Bias ON/OFF output.
8	O-MUTE	O	System MUTE ON/OFF.
9	O-TU-ON/ O-STB-SHIFT-VCD	O	Tuner power supply ON/OFF output/MICON standby shift VCD output.
10	O-PANO-LED	O	Panorama LED ON/OFF output.
11	HP-MUTE	I	Head phone jack detection. "L" : MUTE
12	RESET	I	Reset input for MICON.
13	I-DISH	I	CD turnable photo sensor input.
14	I-SUBQ	I	SUB-Q data input.
15	VSS1	-	Connected to ground.
16	CF1	I	Oscillator circuit input (5.76 MHz).
17	CF2	O	Oscillator circuit output (5.76 MHz).
18	VDD1	-	Digital power supply pin.
19	I-HOLD	I	Power failure detected input.
20	I-KEY1	I	Key A/D input 1.
21	I-KEY2	I	Key A/D input 2.
22	I-KEY3	I	Key A/D input 3.
23	I-PANEL-SW	I	Panel OPEN/CLOSE detect switch AD input.
24	I-JOG	I	Dial jog rotary encoder input.
25	I-SPEANA	I	Spectrum analyser level detection.
26	I-CDSW	I	CD mehca switch input.
27	I-WRQ	I	CD WRQ input.
28	I-TM-BASE	I	Reference clock input for timer switch.
29	I-RMC	I	System remote control signal input. "L" : ACTIVE
30 ~ 41	G12 ~ G1	O	FL grid G12 ~ G1 output.
42 ~ 45	P35 ~ P32	O	FL segment P35 ~ P32 output.
46	VDD3	-	Digital power supply pin.
47	P31	O	FL segment P31 output.
48	SPEANA-A/P30	O	Spectrum analyser BPF switching control A output/FL segment P30 output.
49	SPEANA-B/P29	O	Spectrum analyser BPF switching control B output/FL segment P29 output.
50	SPEANA-C/P28	O	Spectrum analyser BPF switching control C output/FL segment P28 output.
51	VP	-	Power supply for FL.
52 ~ 53	P27 ~ P26	O	FL segment P27 ~ P26 output.
54	ECO-OFF/P25	I/O	ECO-OFF data input<LH only>/FL segment P25 output.
55	LW/P24	I/O	LW diode input (Not used)/FL segment P24 output.

Pin No.	Pin Name	I/O	Description
56	KARAOKE/P23	I/O	Karaoke input to diode<LH only>/FL segment P23 output.
57	DEMO/P22	I/O	Demo (on the stop) diode input (Not used)/FL segment P22 output.
58	DOLBY/P21	I/O	DECK DOLBYdiode input (Not used)/FL segment P21 output.
59	AM-ST/P20	I/O	AM-ST select diode (Not used)/FL segment P20 output.
60	$\overline{\text{SOFT}}$/P19	I/O	DECK SOFT diode input (Not used)/FL segment P19 output.
61	SW/P18	I/O	SW diode input (Not used)/FL segment P18 output.
62	FM1/P17	I/O	FM1 diode input (Not used)/FL segment P17 output.
63	PANO/P16	I/O	Panorama diode input/FL segment P16 output.
64	AM-9K/10K/P15	I/O	AM-9K/10Kselect diode input/FL segment P15 output.
65	CASINO/P14	I/O	Initial casino diode input<LH only>/FL segment P14 output.
66	$\overline{\text{REA}}$/P13	I/O	DECK2 side A recordable switch. "L" : REC<LH only>/FL segment P13 output.
67	$\overline{\text{CST1}}$/P12	I/O	DECK1 cassette detection switch data input. "L" : ON/FL segment P12 output.
68	$\overline{\text{CAM1}}$/P11	I/O	DECK1 CAM STOP switch data input. "L" : ON/FL segment P11 output.
69	$\overline{\text{AUTO2}}$/P10	I/O	DECK2 AUTO STOP switch data input/FL segment P10 output.
70	$\overline{\text{AUTO1}}$/P9	I/O	DECK1 AUTO STOP switch data input/FL segment P9 output.
71	$\overline{\text{CAM2}}$/P8	I/O	DECK2 CAM switch data input. "L" : ON/FL segment P8 output.
72	VDD4	-	Digital power supply pin.
73	$\overline{\text{REB}}$/P7	I/O	DECK2 side B recordable switch. "L" : REC<LH only>/FL segment P7 output.
74	$\overline{\text{CST2}}$/P6	I/O	DECK2 cassette detection switch data input. "L" : ON/FL segment P6 output.
75	M-GEQ/P5	I/O	Manual GEQ diode input<LH only>/FL segment P5 output.
76	R+1/P4	I/O	DECK R+1 diode input<U only>/FL segment P4 output.
77	1+1/P3	I/O	DECK 1+1 diode input (Not used)/FL segment P3 output.
78	$\overline{\text{P-CL}}$/P2	I/O	(Not used)/FL segment P2 output.
79	$\overline{\text{P-OP}}$/P1	I/O	(Not used)/FL segment P1 output.
80	$\overline{\text{BOX1}}$	I	Cassette BOX1 open/close detect input.
81	$\overline{\text{BOX2}}$	I	Cassette BOX1 open/close detect input.
82	I-VOL2	I	Volume rotary encoder input 2.
83	I-VOL1	I	Volume rotary encoder input 1.
84	I-IFC	I	Tuner IF count input.
85	O-MP-CL	O	Moving panel close output.
86	O-MP-OP	O	Moving panel open output.
87	O-PLL CE	O	Tuner PLL IC chip enable output.
88	$\overline{\text{O-KSCAN}}$	O	Initial scan output.
89	VSS2	-	Connected to ground.
90	VDD2	-	Digital power supply pin.
91	$\overline{\text{STBY-LED}}$	O	Standby LED ON/OFF output. "L" : ON
92	O-$\overline{\text{MOTOR}}$	O	Cassette deck motor control output.
93	O-$\overline{\text{SOL1}}$	O	DECK1 solenoid output.
94	O-$\overline{\text{SOL2}}$	O	DECK2 solenoid output.
95	O-CD-DATA	O	CD IC control data output.
96	O-CD-CLK	O	CD IC control clock output.

Pin No.	Pin Name	I/O	Description
97	O-CD-CE	O	CD data chip enable output.
98	I-STEREO/I-DRF	I	Tuner stereo detect input/RF (radio frequency) detect.
99	O-P-DATA	O	Panorama IC data output.
100	O-CLK	O	PLL IC clock output.

ADJUSTMENT – 1 <TUNER / FRONT>

< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to AM 1710 kHz and check that the test point is 2160 kHz ± 45 Hz.

2. AM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to AM 1710 kHz and check that the test point is less than 8.5 V. Then set to AM 530 kHz and check that the test point is more than 0.6 V.

3. AM Tracking Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location : L951(1/3)
   Method : Set to AM 1000 kHz and adjust L951(1/3) so that the test point becomes maximum.

4. AM IF Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location :
   L802 ..... 450 kHz

5. FM VT Adjustment
   Settings : • Test point : TP1 (VT)
   • Adjustment location: L906
   Method : Set to FM 87.5 MHz check that the test point is more than 0.4 V. Then set to FM 108.0 MHz and adjust L906 so that the test point becomes 7.0 V ± 0.1 V.

6. FM Tracking Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location: L903
   Method : Set to FM 87.5 MHz and adjust L903 so that the test point is less than 9 dBµV.

7. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC Balance)
   TP8 (LCH), TP9 (RCH)
   (Mono Distortion)
   • Adjustment location : L801
   • Input level : 60 dBµV
   Method : Set to FM 98.0 MHz and adjust L801 so that the voltage between TP3 and TP4 becomes 0 V ± 500 mV with minimum distortion.

8. Output Level Check
   <AM>
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Input level : 74 dBµV
   Method : Set to AM 1000 kHz and check that the test point is 40 mV ± 3 dB.
   <FM>
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Input level : 60 dBµV
   Method : Set to FM 98.0 MHz and check that the test point is 150 mV ± 3 dB.

9. FM Separation Check
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Input level : 60 dBµV
   Method : Set to FM 98.0 MHz and check that the test point is more than 25 dB.

< FRONT SECTION >

10. µ-CON OSC Adjustment
    Settings : • Test point : TP5 (KEY-SCAN)
    TP6 (GND)
    • Adjustment location : L151
    Method : Insert AC plug while pressing of "POWER" key and "TUNER" function key.
    Connect a frequency counter across TP5 and TP6.
    Then adjust L501 so that the test point becomes 141.67 Hz ± 0.14 Hz.
    [Manual Reset]
    Make up for RESET after adjustment.
    * Reset is to press "POWER" key while pressing of "CLEAR (STOP)" key.

ADJUSTMENT – 2 <DECK>

< DECK SECTION >

1. Tape Speed Adjustment (DECK 2)
   Settings : • Test tape : TTA–100
   • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location : SFR1
   Method : Play back the test tape and adjust SFR1 so that the test point becomes 3000 Hz ± 5 Hz (FWD) and FWD SPEED ± 45Hz (REV) with respect to forward speed.

2. Head Azimuth Adjustment (DECK 1, DECK 2)
   Settings : • Test tape : TTA–330
   • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location : Head azimuth adjustment screw
   Method : Play back (FWD) the 8 kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on REV PLAY mode.

3. PB Frequency Response Check (DECK 1, DECK 2)
   Settings : • Test tape : TTA–330
   • Test point : TP8 (Lch), TP9 (Rch)
   Method : Play back the 315 Hz and 10 kHz signals of the test tape and check that the output ratio of the 10 kHz signal with respect to that of the 315 Hz signal is 0 dB ± 5 dB.

4. PB Sensitivity Check (DECK 1, DECK 2)
   Settings : • Test tape : TTA–200
   • Test point : TP8 (Lch), TP9 (Rch)
   Method : Play back the test tape and check that the output level of the test point is 110 mV ± 3 dB.

5. REC/PB Frequency Response Check (DECK 2)
   Settings : • Test tape : TTA–602
   • Test point : TP8 (Lch), TP9 (Rch)
   • Input signal : 8 kHz/1 kHz (-26 dB)
   • Adjustment location: SFR451 (Lch)
   SFR452 (Rch)
   Method : Apply a 1 kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 10 mV. Record and play back the 1 kHz and 8 kHz signals and adjust SFRs so that the output of 8 kHz signals becomes 0 dB ± 1 dB with respect to that of the 1 kHz signal.

6. REC/PB Frequency Response Check (DECK 2)
   Settings : • Test tape : TTA–602
   • Test point : TP8 (Lch), TP9 (Rch)
   • Input signal : 8 kHz/1 kHz (-26 dB)
   Method : Apply a 1 kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 10 mV. Record and play back the 1 kHz signals and check that the output is 0 dB ± 2.5 dB.

7. REC/PB Sensitivity Check (DECK 2)
   Settings : • Test tape : TTA–602
   • Test point : TP8 (Lch), TP9 (Rch)
   • Input signal : 1 kHz (0VU / -8.0 dB)
   Method : Apply a 1 kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 80 mV. Record and play back the 1 kHz signals and check that the output is –1 dB ± 3.5 dB.

CD TEST MODE

1. How to Start the CD Test Mode

While pressing the FUNCTION button, insert the AC plug to the power outlet.
When the test mode is started, the message [CD TEST] is displayed.

2. How to Exit the CD Test Mode

Press the POWER button or disconnect the AC plug.
* When any key other than PLAY is pressed during play mode, the machine exits the test mode.

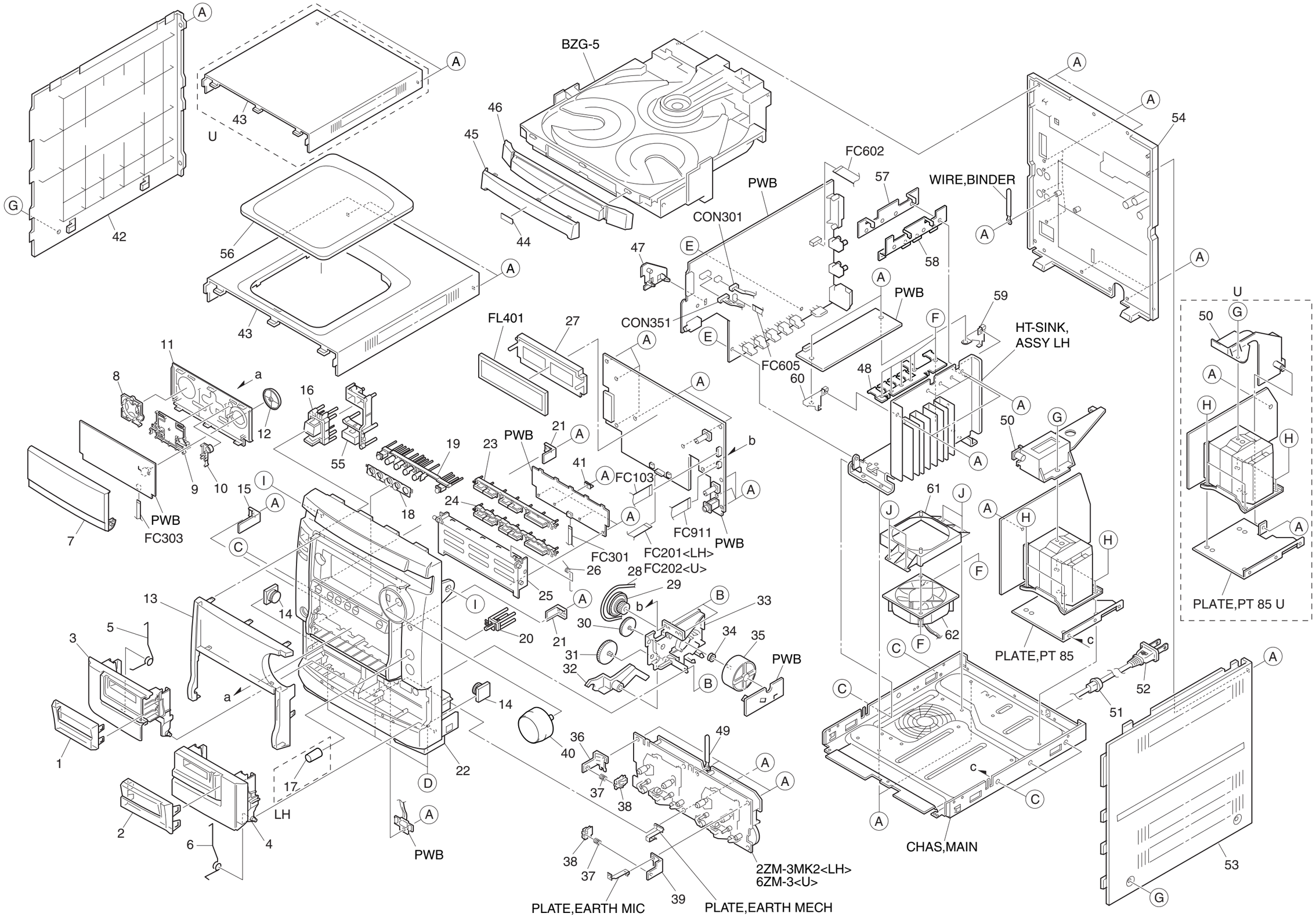
3. Function Descriptions and Application of the CD Test Mode

No	Mode	Operation	Display	Function	Checking item
1	Start mode		All indicators light	• All FL indicators light	• FL check • Microprocessor check
2	Search mode	STOP button	READING	• LD illuminates all the time • Focus search continuous operations *1 • Spindle motor continuous kick	• APC circuit check • Laser current measurement • Focus search waveform check • Focus error waveform check (DRF in the search mode is ignored)
3	Play mode	Play button	Normal	• Normal playback • If TOC cannot be read, focus search is continued	• Each servo circuit is checked • DRF check
4	Traverse mode	PAUSE button	Normal	• Tracking servo OFF/ON • Each time PAUSE button is pressed, the tracking servo repeats turning OFF/ON	• Tracking balance check
5	Sled mode	FF button	CD TEST	• Pickup moves to the inner circumference *2 At the same time, lens kicks to the inner circumference	• Sled circuit check • Tracking circuit check • Mechanism operation check • Pickup check
		RWD button	CD TEST	• Pickup moves to the outer circumference *2 At the same time, lens kicks to the outer circumference	
6	Spindle mode	REC/REC MUTE button	All indicators light	• The spindle motor rotates forward (rough speed) by pressing the button and rotates backward by pressing one more time and stops by pressing again	• Spindle circuit • Spindle motor

*1: The driver IC heats up and the protection circuit starts working when the focus search is continued for 10 minutes or longer. There can be a case that operations cannot be performed correctly.
In such a case, turn off the main power. After cooling down the machine, restart the machine.

*2: Be careful not to damage the gear because the sled motor rotates while the FF or RWD button is being pressed even if the pick-up is located in the innermost track or the outermost track.

MECHANICAL EXPLODED VIEW 1 / 1



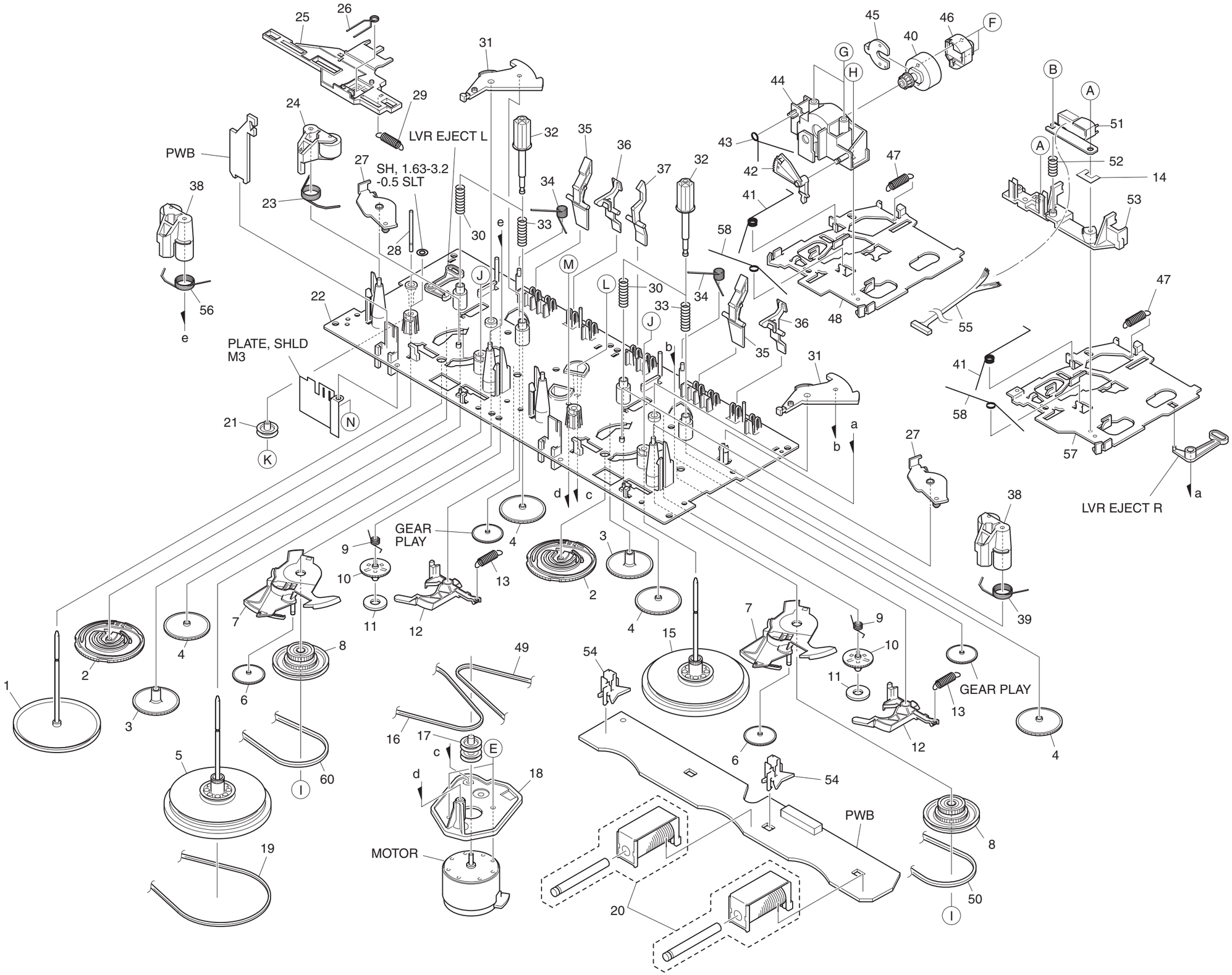
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NF7-007-010		WINDOW,CASS 1
2	8B-NF7-008-010		WINDOW,CASS 2
3	8B-NF7-003-010		BOX,CASS 1 REV
4	8B-NF7-042-010		BOX,CASS 2 1WAY<U>
4	8B-NF7-004-010		BOX,CASS 2 REV<LH>
5	8A-NF8-281-010		SPR-T,EJECT 1
6	8A-NF8-282-010		SPR-T,EJECT 2
7	8B-NF7-083-010		PANEL,MOVE 1F LH<LH>
7	8B-NF7-009-010		PANEL,MOVE 1F U<U>
8	8B-NF7-030-010		KEY,CD
9	8B-NF7-022-010		KEY,ASSY OPE REV
10	8B-NF7-031-010		KEY,ENTER
11	8B-NF7-045-010		PANEL,MOVE 1R H<LH>
11	8B-NF7-010-010		PANEL,MOVE 1R U<U>
12	8B-NF7-013-010		KNOB,RTRY JOG
13	8B-NF7-068-010		WINDOW,DISP LH<LH>
13	8B-NF7-006-010		WINDOW,DISP U<U>
14	8Z-NF6-210-010		DMPR,150 N
15	8B-NF7-221-010		HLDR,PANEL
16	8B-NF7-015-010		KEY,ASSY POWER
17	8B-NF7-014-010		KNOB,RTRY MIC<LH>
18	8B-NF7-052-010		RING,FUN 4
19	8B-NF7-048-010		KEY,ASSY FUN 4
20	8B-NF7-037-010		KEY,PANEL
21	8B-NF7-223-010		HLDR,PANEL 2
22	8B-NF7-061-010		CABI,FR H<LH>
22	8B-NF7-001-010		CABI,FR U<U>
23	8B-NF7-029-010		KEY,BBE
24	8B-NF7-055-010		KEY,TIMER H<LH>
24	8B-NF7-032-010		KEY,TIMER U<U>
25	8B-NF7-086-010		PANEL,MOVE 2 LH<LH>
25	8B-NF7-011-010		PANEL,MOVE 2U<U>
26	8B-NF7-220-010		SPR-T,OPEN
27	8A-NF6-201-010		GUIDE,FL
28	8B-NF7-214-010		BELT,SQ 1.8-113.5
29	8B-NF7-213-010		PULLEY,RELAY
30	8B-NF7-212-010		GEAR,RELAY
31	8B-NF7-211-010		GEAR,PANEL
32	8B-NF7-217-010		LEVER,SW
33	8B-NF7-210-010		HLDR,MECHA
34	84-ZG1-267-010		PULLEY,LOAD MO 8
35	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
36	87-NF4-216-010		HLDR,LOCK 1
37	86-NF9-224-010		SPR-C,LOCK
38	82-NF5-229-010		PLATE,LOCK
39	87-NF4-217-110		HLDR,LOCK 2
40	8B-NF7-012-010		KNOB,RTRY VOL
41	8B-NF7-222-010		HLDR,STOP
42	8A-NF8-007-010		PANEL,LEFT V-2
43	8B-NF7-040-010		PANEL,TOP V-2 ANF8<LH>
43	8B-NF7-039-010		PANEL,TOP V-2 BNFK<U>
44	87-CE3-023-010		BADGE,AIWA 30N SILV
45	8B-NF7-035-010		WINDOW,TRAY
46	8B-NF7-005-010		PANEL,TRAY
47	8A-NF8-206-010		HLDR,PWB M
48	8B-NF7-239-010		HLDR,TR U
49	87-064-185-010		HLDR,WIRE
50	8B-NF7-209-010		HLDR,PT(85-58)<U>
50	8A-NF7-225-010		HLDR,PWB PT 85S<LH>
51	87-085-185-010		BUSHING, AC CORD (E)<LH>
51	87-A91-422-010		BUSHING,AC CORD(U)<U>
⚠ 52	87-A80-157-010		AC CORD ASSY,E BLK CC<LH>
⚠ 52	87-A80-149-010		AC CORD ASSY,U BLK<U>
53	8A-NF8-008-010		PANEL,RIGHT V-2
54	8B-NF7-071-010		CABI,REAR LHSM<LH>
54	8B-NF7-002-010		CABI,REAR USM<U>
55	8B-NF7-026-010		KEY,ASSY PANORAMA
56	8A-NF8-006-010		WINDOW,TOP<LH>
57	8B-NF7-225-010		HLDR,TR PNRM ST
58	8B-NF7-237-010		HLDR,TR PNRM
59	8B-NF7-236-010		HLDR,PWB PNRM R
60	8B-NF7-235-010		HLDR,PWB PNRM F
61	8B-NF7-238-010		HLDR,FAN LOW
62	87-A91-751-010		FAN,DSB0812M-S382 -400MM
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-067-758-010		BVT2+3-12 W/O SLOT
C	87-721-096-410		QT2+3-10 GLD
D	87-067-688-010		BVTT+3-6
E	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
F	87-067-579-010		TAPPING SCREW, BVT2+3-8
G	87-067-641-010		UTT2+3-8(W/O SLOT)BL
H	87-078-199-010		S-SCREW,ITC+4-10 R
I	87-721-097-410		QT2+3-12 GLD
J	87-B10-315-010		BVIT3B+3-8 R W/O

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray

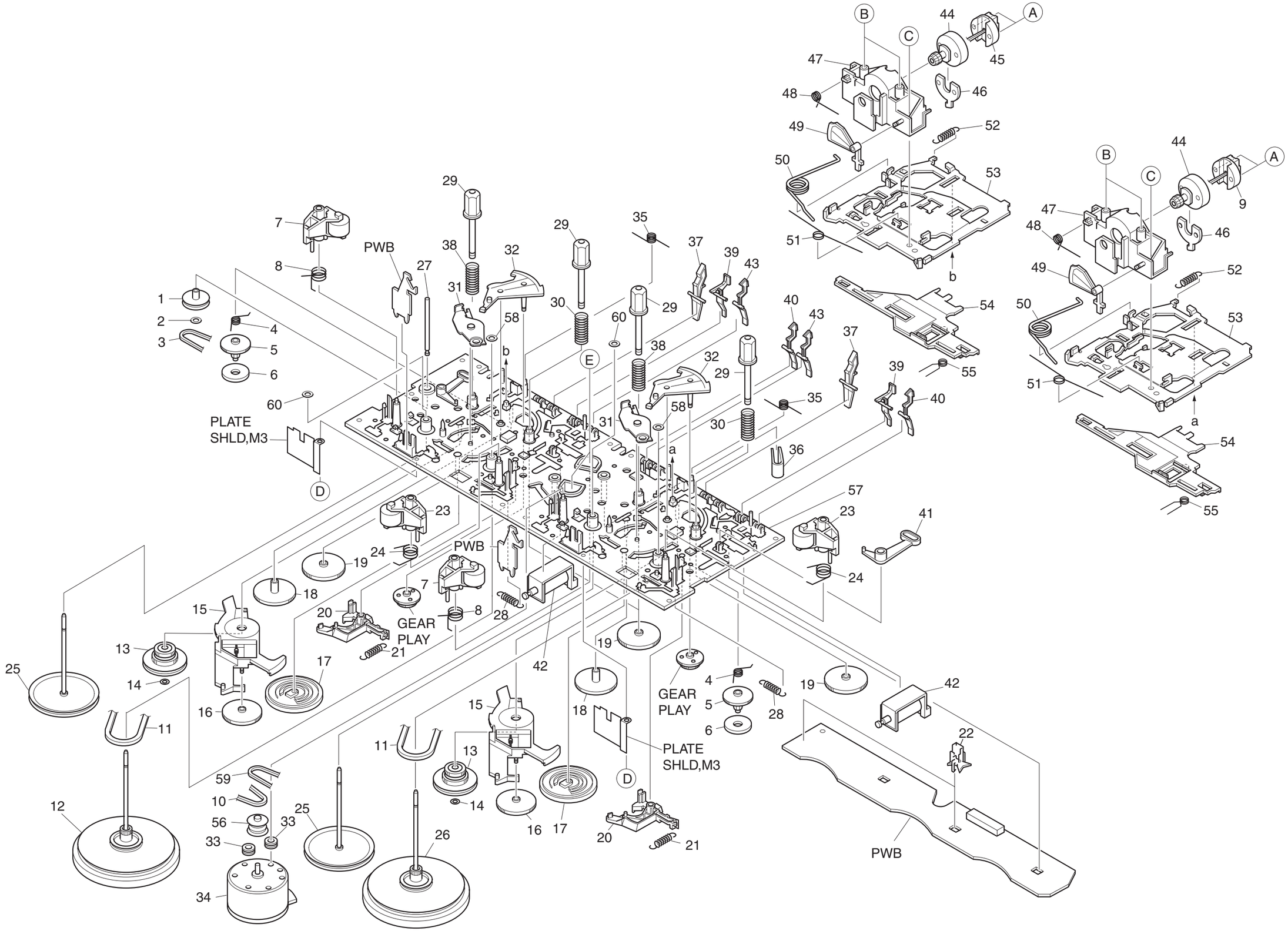
TAPE MECHANISM EXPLODED VIEW 1 / 1 <U>



TAPE MECHANISM PARTS LIST 1 / 1 <U>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM1-234-310		FLY-WHL,L ASSY
2	82-ZM3-305-310		GEAR,CAM M2(*)
3	82-ZM1-226-010		GEAR,REW
4	82-ZM1-216-510		GEAR,REEL
5	09-001-420-010		FLY-WHL,R ASSY
6	82-ZM1-225-210		GEAR,FR
7	82-ZM3-306-110		LVR,FR M2
8	82-ZM3-333-310		SLIP DISK ASSY 2
9	82-ZM1-322-010		SPR-T,FR 60
10	82-ZM1-220-210		GEAR,IDLER
11	82-ZM3-616-010		RING MAGNET 4
12	82-ZM1-227-310		LVR,TRIG
13	82-ZM1-265-310		SPR-E,TRIG
14	86-ZM3-219-010		PLATE,SPACER 0.1
15	82-ZM1-237-610		FLY-WHL ASSY,RW
16	86-ZM3-210-010		BELT,PS
17	82-ZM3-221-210		PULLEY,MOT 2M 3
18	86-ZM3-203-010		HLDR,MOT S
19	86-ZM1-206-010		BELT,MAIN L
20	82-ZM3-628-010		SOL ASSY,23 SO
21	82-ZM3-335-310		PULLEY,COUPLER M3
22	86-ZM3-215-110		CHAS ASSY,RS
23	82-ZM1-258-210		SPR-T,PINCH L
24	82-ZM1-341-210		LVR ASSY,PINCH L2
25	82-ZM1-266-310		LVR,DIR
26	82-ZM1-214-010		SPR-T,DIR
27	82-ZM1-333-210		PLATE,LINK2
28	82-ZM3-339-110		SHAFT,COUPLER N3
29	82-ZM1-255-310		SPR-E,LVR DIR
30	82-ZM1-285-410		SPR-C,BT L
31	82-ZM1-222-310		LVR,PLAY
32	82-ZM1-217-410		REEL TABLE
33	82-ZM1-244-510		SPR-C,BT
34	82-ZM1-257-010		SPR-T,CAS
35	82-ZM1-242-010		LVR,CAS
36	82-ZM1-243-010		LVR,STOP
37	82-ZM1-240-110		LVR,REC(*)
38	82-ZM1-344-110		LVR ASSY,PINCH R2
39	86-ZM3-204-010		SPR-T,PINCH S
40	82-ZM1-208-310		HLDR,HEAD
41	82-ZM1-219-110		SPR-T,LINK
42	82-ZM1-210-110		GEAR,H T
43	82-ZM3-353-010		SPR-T,HEAD
44	82-ZM1-207-910		GUIDE,TAPE
45	82-ZM1-314-110		PLATE,HEAD
46	87-A92-196-010		HEAD,PH HADKH2604A FPC
47	82-ZM1-218-010		SPR-E,HB
48	82-ZM1-206-910		CHAS,HEAD
49	86-ZM3-214-110		BELT,SBU RR
50	82-ZM1-338-110		BELT,FR 4
51	87-A92-195-010		HEAD,RPH HASVH5507A
52	86-ZM3-205-110		SPR-C,RPH S
53	86-ZM3-202-210		BASE,HEAD S
54	82-ZM1-245-210		HLDR,IC
55	86-ZM3-605-110		CONN ASSY,8P -RPB
56	82-ZM1-259-210		SPR-T,PINCH R
57	86-ZM3-201-010		CHAS,HEAD S
58	82-ZM1-269-210		SPR-T,BRG
A	86-ZM3-207-010		S-SCREW,RPH
B	86-ZM3-209-010		S-SCREW,AZIMUTH S
C	86-ZM3-218-110		S-SCREW,EH 2
D	86-ZM3-208-110		S-SCREW,EH
E	87-251-071-410		U+2.6-4
F	80-ZM6-207-010		V+1.6-7
G	86-ZM4-206-010		S-SCREW,AZIMUTH L
H	85-ZM3-202-010		S-SCREW,TG
I	82-ZM3-334-010		PW 2.16-6-0.4
J	80-ZM6-243-010		SH 1.75-3.6-0.5 SLT
K	87-B10-043-010		W-P,0.99-4-0.25 SLT
L	86-ZM3-213-010		S-SCREW,HLDR MOT S
M	87-761-073-410		VFT2+2.6-8 W/O SLOT
N	82-ZM3-222-010		S-SCREW,SHILD PLATE

TAPE MECHANISM EXPLODED VIEW 1 / 1 <LH>



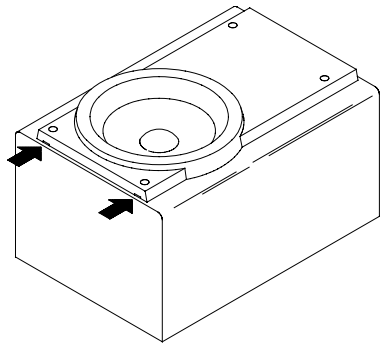
TAPE MECHANISM PARTS LIST 1 / 1 <LH>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-335-310		PULLEY,COUPLER M3
2	87-B10-043-010		W-P,0.99-4-0.25 SLT
3	86-ZM1-206-010		BELT,MAIN L
4	82-ZM1-322-010		SPR-T,FR 60
5	82-ZM1-220-210		GEAR,IDLER
6	82-ZM3-616-010		RING MAGNET 4
7	82-ZM1-341-210		LVR ASSY,PINCH L2
8	82-ZM1-258-210		SPR-T,PINCH L
9	87-A90-821-110		HEAD,RPH HADKH56 FPC
10	82-ZM3-342-010		BELT,SBU MOT 3
11	82-ZM1-338-110		BELT,FR 4
12	09-001-420-010		FLY-WHL,R ASSY
13	82-ZM3-333-310		SLIP DISK ASSY 2
14	82-ZM3-334-010		PW 2.16-6-0.4
15	82-ZM3-306-110		LVR,FR M2
16	82-ZM1-225-210		GEAR,FR
17	82-ZM3-305-310		GEAR,CAM M2(*)
18	82-ZM1-226-010		GEAR,REW
19	82-ZM1-216-510		GEAR,REEL
20	82-ZM1-227-310		LVR,TRIG
21	82-ZM1-265-310		SPR-E,TRIG
22	82-ZM3-351-010		HLDR,IC 2
23	82-ZM1-344-210		LVR ASSY,PINCH R2
24	82-ZM1-259-210		SPR-T,PINCH R
25	82-ZM1-234-310		FLY-WHL,L ASSY
26	82-ZM1-237-610		FLY-WHL,R ASSY
27	82-ZM3-339-110		SHAFT,COUPLER N3
28	82-ZM1-255-310		SPR-E,LVR DIR
29	82-ZM1-217-410		REEL TABLE
30	82-ZM1-285-410		SPR-C,BT L
31	82-ZM1-333-210		PLATE,LINK2
32	82-ZM1-222-310		LVR,PLAY(*)
33	82-ZM3-307-010		CUSH-G,DIA3.7-8-3.2
34	87-045-347-010		MOT,SHU2L 70
35	82-ZM1-257-010		SPR-T,CAS
36	82-ZM3-340-010		SH,BELT D2
37	82-ZM1-242-010		LVR,CAS
38	82-ZM1-244-510		SPR-C,BT
39	82-ZM1-243-010		LVR,STOP
40	82-ZM1-240-110		LVR,REC(*)
41	82-ZM1-264-010		LVR,EJECT R
42	82-ZM3-627-010		SOL ASSY 27 SO
43	82-ZM1-241-310		LVR,MC
44	82-ZM1-208-310		HLDR,HEAD
45	87-A90-820-110		HEAD,PH HADKH25 FPC
46	82-ZM1-314-110		PLATE,HEAD
47	82-ZM1-207-910		GUIDE,TAPE
48	82-ZM3-353-010		SPR-T,HEAD 2
49	82-ZM1-210-110		GEAR,H T
50	82-ZM1-219-110		SPR-T,LINK
51	82-ZM1-269-210		SPR-T,BRG
52	82-ZM1-218-010		SPR-E,HB
53	82-ZM1-206-910		CHAS,HEAD
54	82-ZM1-266-310		LVR,DIR
55	82-ZM1-214-010		SPR-T,DIR
56	82-ZM3-221-210		PULLEY,MOT 2M
57	82-ZM3-301-610		CHAS ASSY,M2
58	80-ZM6-243-010		SH 1.75-3.6-0.5 SLT
59	82-ZM3-329-410		BELT,SBU R2
60	82-ZM1-288-010		SH,1.63-3.2-0.5 SLT
A	80-ZM6-207-010		V+1.6-7
B	86-ZM4-206-110		S-SCREW,AZIMUTH L
C	85-ZM3-202-010		S-SCREW,TG
D	82-ZM3-222-010		S-SCREW,SHILD PLATE
E	82-ZM3-318-110		S-SCREW W,MOTOR M2

GENERAL SPEAKER DISASSEMBLY INSTRUCTIONS (FOR REFERENCE)

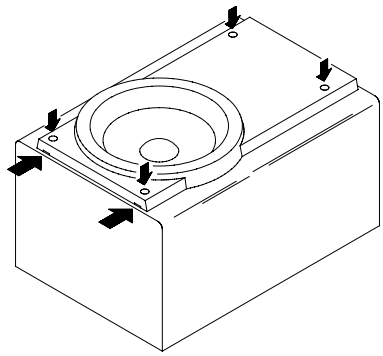
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



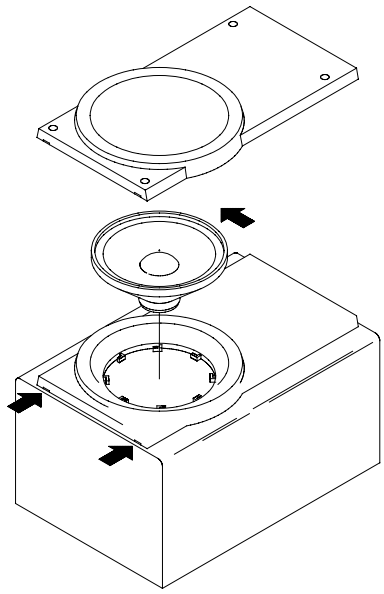
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

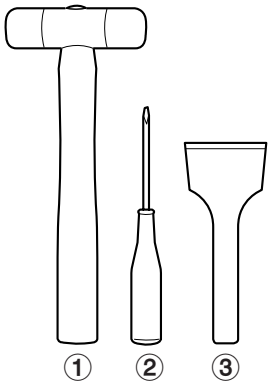


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

① Plastic head hammer
② (⊖) flat head screwdriver
③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.

2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.

3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

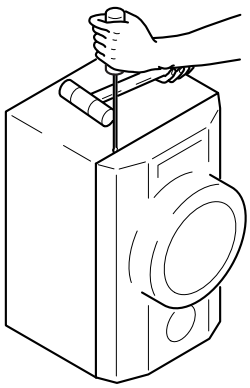


Fig-1

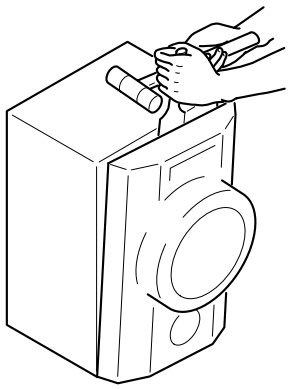


Fig-2

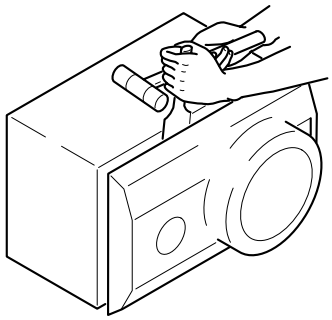


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST (SX-NAJ801<YUSC / YUSC9>)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NSH-001-010		PANER,FR
2	8A-NSJ-006-010		BADGE,AIWA S35
3	8B-NSH-007-010		PANEL,DUCT
4	8B-NSH-008-010		PROTECTOR,
5	8B-NSH-602-010		SPKR, W 160 35/4
6	8B-NSK-604-010		SPKR, T 60

SPEAKER PARTS LIST (SX-WNSZ800<YLSL>)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NS7-001-010		PANEL,FR
2	8B-NS7-002-010		PANEL,SP A
3	8B-NS7-003-010		PANEL,SP B
4	8B-NS7-004-010		PANEL,DUCT
5	8B-NS7-005-010		PANEL,BA A
6	8B-NS8-007-010		PROTECTOR,M
7	8B-NS7-602-010		SPKR, W 200R 35/4
8	8B-NS8-604-010		SPKR, M 100W
9	88-NSK-610-010		SPKR, CERAMIC ASSY
10	88-NS5-610-010		CORD,SPKR
11	8B-NS7-016-010		RING,TW

SPEAKER PARTS LIST (SX-S85)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NS7-009-010		PANEL,FR
2	8B-NS7-011-010		GRILLE,FRAME ASSY
3	8B-NS7-606-010		SPKR, 80
4	8B-NS7-610-010		CORD,5.0

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NF7-902-010		IB,LH(ESP)M<LH>
1	8B-NF7-903-010		IB,U(ESF)M<U>
2	87-A92-150-010		ANT,LOOP AM NO-CONT
3	8B-NF7-701-010		RC UNIT,RC-BAS01
4	87-043-115-010		ANT,FEEDER FM
⚠ 5	87-A91-017-010		PLUG,CONVERSION JT-0476<LH>

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